



TENDER DOCUMENT

FOR

SUPPLY, INSTALLATION, COMMISSIONING & TESTING OF BULK MILK COOLER, D.G.SET, STABILIZER, WEIGHING MACHINE, AUTOMATIC MILK COLLECTION UNIT (AMCU), MILK TESTING EQUIPMENTS (MTE), ALUMINIUM MILK CAN 40 LITRE CAPACITY, S.S MILK CAN 5 LITRE CAPACITY AND FURNITURE & FIXTURE (ALMIRAH, TABLE & CHAIR) UNDER WODC.

AT

DIFFERENT MILK PRODUCERS' CO-OPERATIVE SOCIETIES UNDER SAMALESWARI REGIONAL CO-OPERATIVE MILK PRODUCERS' UNION LTD.,

AT-GOSHALA (BOUDIAPARA), PO : KALAMATI, DIST.-SAMBALPUR-768025

Date of Commencement for Sale of Tender Papers

: 11.10.2023 (10.00 A.M to 4.00 P.M)

Last date & Time for Sale of Tender Papers

: 25.10.2023 (Up to 1.00 P.M)

Last Date & Time for receipt of Tender

: 25.10.2023 (Up to 4.00 P.M)

(Technical Bid and Price bid in separate sealed covers)

Date and Time of opening of Tender (Technical Bid)

: 26.10.2023 (At 11.00 A.M)

Date and Time of opening of Tender (Financial Bid)

: Will be intimated to the technically
Qualified eligible bidders later on.

RECEIPT OF TENDER PAPERS

PLACE OF OPENING OF TENDER

ADDRESS FOR COMMUNICATION

Samaleswari Regional Co-op.

Milk Producers' Union Ltd.,

At-Goshala(Boudiapara)

Po : Kalamati

Dist.-Sambalpur-768025.

GSTIN- 21AAMAS3215Q1Z8

COST -Rs.1000.00 + GST 18%

SMALESWARI REGIONAL CO-OPERATIVE MILK PRODUCERS' UNION LTD.,
AT-GOSHALA (BOUDIAPARA), PO : KALAMATI, DIST.-SAMBALPUR-768025

Phone : (0663) 2950426, Mob.No.9437122477

Email : omfedsrcompul@gmail.com/ Website : www.samul.in

1.01/12/2023



SAMALESWARI REGIONAL CO-OPERATIVE MILK PRODUCERS' UNION LTD.,
AT-GOSHALA (BOUDIAPARA), PO : KALAMATI, DIST.-SAMBALPUR-768025

Phone : (0663) 2950426, Mob.No.9437122477

Email : omfedsrcmpul@gmail.com/ Website : www.samul.in

TENDER NOTICE FOR

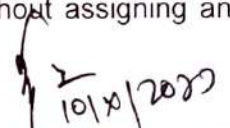
SUPPLY, INSTALLATION, COMMISSIONING & TESTING OF BULK MILK COOLER, D.G.SET, STABILIZER, WEIGHING MACHINE, AUTOMATIC MILK COLLECTION UNIT (AMCU), MILK TESTING EQUIPMENTS (MTE), ALUMINIUM MILK CAN 40 LITRE CAPACITY, S.S MILK CAN 5 LITRE CAPACITY AND FURNITURE & FIXTURE (ALMIRAH, TABLE & CHAIR) UNDER WODC.

SAMUL invites sealed and separate offers for Technical & Commercial bids from reputed Manufacturers/ Distributors for supply, installation, commissioning & testing of Bulk Milk Cooler, D.G.Set, Stabilizer, Weighing Machine, Automatic Milk Collection Unit (AMCU), Milk Testing Equipments (MTE) & Stationeries, Aluminium Milk Can 40 litre capacity, S.S.Milk Can 5 litre capacity and Furniture & Fixture (Almirah, Table & Chair) under WODC at different Milk Producers' Co-operative Societies of SAMUL. Tender document can be down loaded from web site www.samul.in and www.sambalpur.nic.in against payment of Rs.1000/- + 18 % GST or Rs. 1180/- in shape of Demand Draft drawn in favour of Samaleswari Regional Co-operative Milk Producers' Union Ltd., Sambalpur drawn on any nationalized bank payable at Sambalpur. The Tender document should be duly filled & submitted on due date alongwith the cost of paper.

The sealed technical & commercial bid along with EMD as mentioned in the Tender Notice (insidecommercial bid) should reach the above addressed office by Dt.-25.10.2023 up to 4 PM hours. The Bid shall open on 26.10.2023 at 11.00 AM, in presence of interested bidders. For details please visit our website www.samul.in and www.sambalpur.nic.in

The corrigendum/ amendment to this notice required shall be published only in the SAMUL website and will not be published again in newspapers.

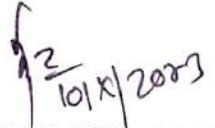
SAMUL reserves the right to cancel partial or whole tender without assigning any reasonthereof.


GENERAL MANAGER, SAMUL

Memo No....822.....

dt..10.10.2023..

Copy forwarded to DIO, NIC, Sambalpur may be requested to web hoist the Tender Notice in the District Website portal for wide publication of Tender.


GENERAL MANAGER, SAMUL



SMALESWARI REGIONAL CO-OPERATIVE MILK PRODUCERS' UNION LTD.,
AT-GOSHALA (BOUDIAPARA), PO : KALAMATI, DIST.-SAMBALPUR-768025

Phone : (0663) 2950426, Mob.No.9437122477

Email : omfedsrcompul@gmail.com/ Website : www.samul.in

Bid Identification No. SAMUL/ 831 /Open Tender Date:- 10.10.2023

SAMUL invites sealed and separate offers for Technical & Commercial bids from original equipment manufacturer or their authorized channel partner for supply, installation, commissioning & testing of Bulk Milk Cooler, D.G.Set, Stabilizer, Weighing Machine, Automatic Milk Collection Unit (AMCU), Milk Testing Equipments (MTE), Aluminium Milk Can 40 litre capacity, S.S.Milk Can 5 litre capacity and Furniture & Fixture (Almirah, Table & Chair) under WODC at different Milk Producers' Co-operative Societies of SAMUL. Tender document can be down loaded from web site www.samul.in and www.sambalpur.nic.in against payment of Rs.1000/- + 18 % GST or Rs.1180/- in shape of Demand Draft drawn in favour of Samaleswari Regional Co-operative Milk Producers' Union Ltd., Sambalpur drawn on any nationalized bank payable at Sambalpur.

Name of the ITEM	Capacity	Qty.	Estimated Total Cost (in Lakhs)	Cost of Tender paper (in Rs.)	Availability of tender for on line bidding (Date)		Date of opening	Bid Security (in Lakh), (EMD)
					From	To		
Bulk Milk Cooler(BMC)	2 KL	1 Set	4.90	1000.00 + 18% GST	11.10.23	25.10.23	26.10.23 at 11.00 AM	25,000.00
D.G.Set, Servo Voltage	16 KVA 3 Phase	1 No.	4.50					
Servo Stabilizer	16 KVA 3 Phase	1 No.	1.10					
Weighing balance	200/500 Kg.	1 No.	0.10					
AMCU	Set	50	75.0	1000.00 + 18% GST	11.10.23	25.10.23	26.10.23 at 11.00 AM	1,00,000.00
Milk Testing Equipments (MTE)	Set	30	3.60	1000.00 + 18% GST	11.10.23	25.10.23	26.10.23 at 11.00 AM	10,000.00
Aluminium Milk Can	40 Ltrs.	120 Nos.	4.20	1000.00 + 18% GST	11.10.23	25.10.23	26.10.23 at 11.00 AM	10,000.00
S.S Milk Can	5 Ltrs.	1500 Nos.	7.50	1000.00 + 18% GST	11.10.23	25.10.23	26.10.23 at 11.00 AM	15,000.00
Furniture & Fixture	1 No. Almirah 1 No. Table 1 No. Chair 4 Nos. Plastic Chair	30 Sets	4.5	1000.00 + 18% GST	11.10.23	25.10.23	26.10.23 at 11.00 AM	10,000.00

2. Bid documents consisting of specifications, the schedule of quantities and detail of

10/10/2023

terms and conditions of contract and other necessary documents can be seen in the SAMUL website www.samul.in and www.sambalpur.nic.in . The corrigendum/amendment to this notice if required shall be published only in the SAMUL website www.samul.in and www.sambalpur.nic.in and will not be published again in newspaper.

3. The Bid documents will be available in the website www.samul.in and www.sambalpur.nic.in from 11.10.2023 (10.00 AM) to 25.10.2023 (4.00 PM)

4. (i) The tender paper cost (in shape of D/D) & EMD (in shape of D/D) in original, to be submitted

(ii) Photo Copy of GST, PAN, Registration Certificate of firm, Experience Certificate, other documents as per detail tender call notice(DTCN) with duly signed by the bidder(Only Papers relating to Technical Bid) to be submitted.

(iii) Financial Bid in a separate closed envelope captioned as “**Financial Bid**” on the envelope.

As mentioned 4 (i) (ii) & (iii) shall have to be deposited in different sealed envelopes within from 11.10.2023 (10.00 AM) to 25.10.2023 (4.00 PM) at the SAMUL Head Office at Goshala (Boudipara) Po : Kalamati, Dist.-Sambalpur-768025.

Non-submission of cost of bid document and bid security within the period shall debar from participating in the bidding system.

5. Bids shall be received only on or before 4.00 PM of 25.10.2023.

6. Bids received shall be opened at 11.00 A.M. on 26.10.2023 at SAMUL Head office in the presence of the bidders. If the office happens to be closed on the last date of opening of the bids as specified, the bids will be opened on the next working day at the same time and venue.

7. The cost of bid documents & EMD in demand draft issued from any Nationalized Scheduled Bank may be prepared in favour of SAMUL, payable at Sambalpur.

8. The Co-operatives, Govt. bodies, NSIC and MSME registered firms are exempted from submitting required EMD.

9. Other details can be seen in the bidding documents.

10. The Financial bid will be open among the qualified technical bidders & the details of date, time, venue will be intimated in due time

11. The management reserves the right to cancel any or all bids without assigning any reason.

12. Any corrigendum /addendum will be displayed in the SAMUL website (www.samul.in) and www.sambalpur.nic.in

13. Defaulters' in earlier supply to SAMUL or Black listed anywhere in the country are not allowed to participate in the tender.

14. Jurisdiction – The court at Sambalpur alone will have jurisdictions for any legal dispute which may arise out of this tender.



General Manager, SAMUL

GENERAL TERMS & CONDITIONS:

1. Eligibility Criteria

1.1 The manufacturing company should provide after sale service for supply, installation, commissioning & testing of Bulk Milk Cooler, D.G.Set, Stabilizer, Weighing Machine, Automatic Milk Collection Unit (AMCU), Milk Testing Equipments (MTE) , Aluminium Milk Can 40 litre capacity, S S Milk Can 5 litre capacity and Furniture & Fixture (Almirah, Table & Chair).

1.2 The average annual sales turnover of the manufacturing company detailed out below.

Sl. No.	Item Description	Minimum Average Annual sales turn over (Rs) for the year 2020-21 to 2022-2023
1	Bulk Milk Cooler(BMC) of different capacity with D.G.Set, Servo Voltage Stabilizer and Weighing Scale of in line capacity on composite basis	1 00 Crore
2	AMCU	1 00 Crore
3	Milk Testing Equipments (MTE)	30 00 Lakhs
4	Aluminium Milk Can	50 00 Lakhs
5	S.S Milk Can	30.00 Lakhs
6	Furniture & Fixture	10 00 Lakhs

1.3 The bidder should have supplied above Materials to different Milk Unions/Milk Federations/Dairy Plants for the year 2020-21 to 2022-2023 & should submit the proof along with the copy of Purchase Order.

2. **Specification:** Each supply of these materials (Sl.No.1 to 5) must conform to the Technical Specification enclosed as **Annexure – I to VIII**.

3. **Quantity Requirement:** Attached separate as **Annexure – ‘A’ & Annexure- ‘B’**.

3.1 The quantity may vary and will be as per rate that will be finalised & at the discretion of SAMUL.

4. **Offer Price/Rate:** quoted should be inclusive of all taxes, transport , insurance charges, installation, commissioning, Training etc.

The offered price should be uniform for all sites at different MPC'S of SAMUL inside the State of Odisha irrespective of distance.

4.1 In case there is any increase/reduction in Government taxes, excise, levies, the same will be made effective immediately.

5. **Delivery Time:** Supply, commissioning, testing & running within **15 days** from the date of acceptance of the order directly at site/Societies of member Unions as per requirement.

5.1 The default penalties during deliveries of goods at all destination/site shallbe in your accounts and no any extra charges paid for the same.

5.2 The goods to be supplied , shall be fully insured by supplier against loss/ damage incidental to manufacturer or acquisition, transportation, storage and delivery in the manner specified in the condition.

5.3 If any loss/damage occurs, the supplier shall make arrangement for repair and replacement of the same within the stipulated time.

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10/10/2022

6. EMD/Security deposit:

6.1 You are required to pay EMD/security deposit by demand draft drawn in favour of SAMUL, Sambalpur as per the terms of the business.

6.2 This EMD/Security Deposit will carry no interest & shall be refunded only after completion of orders/contract satisfactorily and after obtaining clearance certificate from member unions that there are no outstanding dues to be recovered from you.

7. Change in terms, conditions & specifications: In case of any midyear change in terms, conditions & specifications decided by SAMUL management, we reserve the right to cancel the contract with you in part or in full. However, in such instance, we shall provide you with adequate notice period.

8. Inspection: SAMUL reserves the right to depute either our representatives or representatives of our MPCS or of any independent body for inspection of materials while the same are under manufacturing, installation/commissioning etc. To facilitate inspections as and when necessary, you will be required to give prior intimation as to when you are likely to finish manufacturing of equipments. In case during such inspection the result is found unsatisfactory, we reserve the right to take whatever action is necessary to protect our interests. However, at our destination we may decide not to carry the inspection. But we may rely on the certificate of the supplier confirming that equipments manufactured as per the laid down specifications & standards.

9. Insurance for supply : The manufacturer shall have to arrange **all transit risk insurance warehouse to warehouse basis**, including strike clauses, for an amount equal to 110% of the FOR destination value of the Goods, valid for a period of not less than 3 months after the expected date of arrival of Goods at destination.

In the event of any damage to/loss of consignment in transit, it will be your responsibility to lodge necessary claims with the carriers/underwriters and pursue them till settlement. Since the insurance policy will be in our name, if required, we shall give you necessary authorization letter authorizing you to lodge and pursue claims on our behalf with the carriers/underwriters. Also you shall have to make good the losses/damages occurred in transit by making replacement/payment to us in the first instance and if claims are settled by the underwriters and any amounts are realized by us, the amounts thus realized in settlement of claims shall be reimbursed to you. In other words, the prima facie responsibility rests on you for getting compensation of the damage/losses incurred if any, due to all transit hazards.

10. Transportation : The Tenderers is required to deliver the Goods FOR Destination, by road, Transport of the goods to the destination shall be arranged through a reputed and Bank approved transporter having local offices at destination and Sambalpur, and shall be paid for by the Tenderers.

11. Incidental services :

11.1 The Tenderers is required to provide the following services :-

a) Performance of no-site assembly, installation, hooking-up to existing system, start up, testing performance trial and handing over of the supplied goods.

b) Furnishing of tools, tackles, jack and spanner etc. required for assembly and maintenance of the supplied goods.

c) Furnishing of a detailed operations and maintenance manual for each

[Handwritten signature]

appropriate unit of the supplied goods.

d) Operation, maintenance and repair of the supplied goods for a period of 30 days, provided this service shall not relieve the Tenderers of any warranty obligations under this contract; and

e) Conduct of training of the personnel, on-site, in assembly, start-up operation, maintenance and repair of the supplied goods, if required.

11.2 Prices charged by the Tenderers for the preceding incidental services are to be included in the price of the contract.

12. Spare parts :

12.1 The Tenderers may be required to provide any or all the following materials and notifications pertaining to spare parts manufactured or distributed by the Tenderer :

a) Such spare parts as the Committee may elect to purchase from the Tenderer, provided that this election shall not relieve the contractor of any warranty obligations under the contract : and

b) In the event of termination of production of the spare parts :

(i) Advance notification to the Committee of the pending termination, if sufficient time to permit the Committee to procure its needed requirement, and

(ii) Following such termination, furnishing at no cost to the Committee the blue prints, drawings and specifications of the spare parts, if and when requested.

12.2 Tenderers shall carry sufficient inventories to assure ex-stock supply of consumable spares such as gaskets, plugs, washers, belts, etc. other spare parts and components shall be supplied as promptly as possible but in any case with six months of placement of order.

13. WARRANTY:

13.1 The Supplier warrants that the goods supplied under the contract are new, unused of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the contract. The Supplier further warrants that the goods supplied under this contract shall have no defect arising from design, material or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied goods in the conditions. The Supplier also guarantees that the goods supplied shall perform satisfactorily as per the designed/rated/installed capacity as provided for the contract.

13.2 The warranty/guarantee shall remain for 12 months after the goods or any portion thereof as the case may be, have been delivered & handed over to the General Manager, SAMUL after the performance of 30 days trial run period.

13.3 The General Manager, SAMUL shall promptly notify the Supplier in writing of any claims arising under this warranty.

13.4 Upon receipt of such notice, the Supplier shall, with all reasonable speed, repair or replace the defective goods or parts thereof, without cost to the General Manager, SAMUL.

13.5 If the Supplier, having been notified, fails to remedy the defects within a period of 30 days the General Manager, SAMUL may proceed to take such remedial action as

may be necessary, at the Suppliers risk and expense the without prejudice to any other rights which the General Manager, SAMUL may have against the Supplier under the contract.

The warranty/guarantee shall not cover any damage/s resulting from normal wear and tear or improper handing by the General Manager, SAMUL or his aurtherized.

14. Terms of payment:

- Bills in triplicate shall be submitted along with a copy of P.O.
- 75 % on safe receipt of material at site.
- 15 % after successful commissioning/testing & running/report of equipment supplied
- PSD @ 10 % of billed value shall be retained by ordering authority for a period of 01 year from the date of successful commissioning and shall be released subject to satisfactory performance.
- Any other statutory deduction like TDS etc. as applicable.

15. Penalty: Penalty @ 0.5 % of the order value per week shall be imposed for delay in execution beyond the time frame. The penalty amount will be Limited to 10% of the order value.

16. Termination for default

16.1 The General Manager, SAMUL may without prejudice to any other remedy for breach of contract, by written notice of default sent to the contractor, terminate the contract in whole or in part.

a) If the contractor fails to delivery an or all the goods within the time period (s) specified in the contract,

Or

b) If the contractor fails to perform any other obligation (s) under the contract

17.2 Termination for Insolvency

The General Manager, SAMUL may at any time terminate the contract by giving written notice to the contractor, without compensation to the contractor, if:

- (a) The contractor becomes bankrupt or otherwise insolvent,
- (b) The contractor being a company is wound up voluntarily by the order of a court receiver, liquidator or manager appointed on behalf of the debenture holders or circumstances shall have arisen which entitle the court or debenture holders to appoint a receiver, liquidator or a manager,

Provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the General Manager, SAMUL

10/11/2022

18. Termination for Convenience

17.1 The General Manager, SAMUL, may by written notice sent to the contractor, terminate the contractor, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is of the General Manager, SAMUL convenience, the extent to which performance of work under the contract is terminated, and the date upon which such termination becomes effective.

17.2 The goods that are complete and ready for shipment within 30 days after the contractor's receipt of notice of termination shall be purchased by the General Manager, SAMUL at the contract terms and prices. For the remaining goods, the General Manager, SAMUL may elect

- (a) To have any portion completed and delivered at the contract terms and prices; and/or
- (b) To cancel the remainder and pay to the contractor an agreed amount for partially completed goods and for material and parts previously procured by the contractor.

19. Settlements of Disputes

18.1 If the contractor considers any work demanded of him to be outside the requirements of the contract, or considers any drawings, record or ruling of the engineer on any matter in connection with or arising out of the contract or the carrying out of the work to be unacceptable, he shall promptly ask the engineer in written instructions or decision. There upon the engineer shall give his written instructions or decision within a period of fifteen days of such request.

18.2 Upon the receipt of the written instructions or decisions the contractor shall promptly proceed without delay to comply with such instructions or decisions.

18.3 If the engineer fails to give his instructions or decisions in writing within a period of fifteen days after being requested, or if the contractor is dissatisfied with the instructions and decisions, he shall appeal to the General Manager, SAMUL which shall afford an opportunity to the contractor to be heard and to offer an evidence in support of his appeal. The General Manager, SAMUL shall give a decision within a period of thirty days after the contractor has given the said evidence in support of his appeal.

18.4 If the contractor is dissatisfied with this decision, the contractor within a period of thirty days from the receipt of the decisions shall indicate his intension to refer the dispute to arbitration, failing which the said decision shall be final and conclusive.

20. Arbitration

All disputes or differences in respect of which the decision is not final and conclusive shall, on the initiative of either party, be referred for adjudication as per the Arbitration And Conciliation Act 1996

21. Applicable law

The contract shall be interpreted in accordance with the laws of the union of India.

22. Notices

21.1 Any notice given by one party to the other pursuant to the contract shall be sent in writing or by telegram/ fax/ cable and confirmed in writing to the address specified for that purpose in the special conditions of contract.

21.2 A notice shall be effective when delivered or on the notice's effective date, which ever is later.

1/2/101X/2020

22. Taxes and Duties

The contractor shall be entirely responsible for GST, all taxes, duties, license fees etc compliance to the labour law, incurred until handing over of the goods and services to the SAMUL. All Government fees paid for inspections and approvals by statutory authorities shall be reimbursed by SAMUL on production of copy of treasury Challan for same. Service charges for depositing the govt. fees or submission of requisite forms with the statutory authorities shall be not being admissible.

23. Documents to be submitted in technical bid:

- Certificate from the clients with detail contact address to establish supply of the items
- Proof of sales turn over(Audited Profit & Loss Account)
- Undertaking by the bidder that the bidder is not black listed by any Co-operative Milk Union/ State Milk Federation/Govt. Agencies
- Audited profit and loss account for the year 2020-21 to 2022-23.
- IT returns for the financial year 2020-21 to 2022-23.
- Credentials in support of supply of above materials.
- Performance certificate issued by the clients are to be furnished.
- Demand Draft towards tender paper cost of Rs.1180.00
- Demand Draft towards EMD as per Tender Notice.
- Printed technical literature / catalogue of Materials.
- Duly filled in Manufacturers' authorization letter (for authorized channel partner)
- Xerox copies of PAN / GST.
- Valid NSIC/MSME certificate holders are exempted from the EMD (subject to submit the copy of said certificate for verification).

24. Other Terms and Condition:

- The bidder cannot stipulate any terms and condition of his own beyond the tender requirements.
- The bid shall be rejected if not completed with tender requirement.
- All statutory approval is within the scope of the bidder.
- It is mandatory on the part of bidder to quote for the entire item as mentioned in the BOQ failing which the offer shall not be considered.
- All the required documents relating to Technical bid should be uploaded online.

25. VALIDITY OF OFFER:

01 year from the date of notification.

Signature:

Seal:

Date

27/10/2020

COMMERCIAL BID FORMAT

Sl No	Name of Item	Quantity	Unit Price with FOR (in Rs.)	Taxes (in Rs)	Total Amount Including all (in Rs.)
1	Bulk Milk Cooler(BMC) 2KL (Three Phase)				
2	Diesel Generator Set 16 KVA, 3 Phase (Oil cooled)				
3	Servo Voltage Stabilizer 16 KVA, 3 Phase				
4	Weighing Balance 200/500 Kg				
5	Automatic Milk Collection Unit (AMCU) Including operating Software				
6	Milk Testing Equipments (MTI)				
7	Aluminium Milk Can 40 ltrs. capacity				
8	S.S Milk Can 5 ltrs. capacity				
9	Furniture & Fixture 1. Almirah 2. Table 3. Chair 4. Plastic Chair				

Signature:

Seal:

Date:

7/10/2023

DECLARATION

(To be filled in party's letter pad)

I/WE DECLARE THAT I/WE HAVE GONE THROUGH THE ABOVE MENTIONED CONDITIONS IN DETAIL BEFORE FILLING UP OUR RATES AND SUBMISSION OF THE TENDER PAPER. I/WE ARE AGREEING TO ABIDE WITH THESE CONDITIONS UNTIL THE FINALISATION OF THE TENDER.

Enclosures:

Signature :

Name of Firm:

TIN/CST No.

Address :

Date:

Telephone No:

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10/11/2013

TECHNICAL DEVIATION STATEMENT FORM

The following are the particulars of deviations from the requirements of the tender specifications.

CLAUSE	DEVIATION (Including justification)	REMARKS
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Dated-

Signature and seal of the

Manufacturer / Bidder

Note:

- (3) Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations".
- (4) The technical specifications furnished in the bidding document shall prevail over those of any other document forming a part of our bid, except only to the extent of deviations furnished in the statement.

Handwritten signature and date: 10/10/2023

DECLARATION REGARDING NOT BLACKLISTED

Date-

To,

The General Manager
Samaleswari Regional Co-operative
Milk Producers' Union Ltd.
At-Goshala (Boudiapada)
Po-Kalamati
Dist.-Sambalpur-768025

Ref : Tender notice No-

Dated-

Sub : DECLARATION REGARDING NOT BLACKLISTED

Dear Sir,

We M/s- (Name of the company and address.....)
declare that our company was not blacklisted by any Govt. Offices / govt.
Undertakings / Organisations / UNO agencies / PSU etc.

This is for your Kind Information please.

For

(Name, Seal, Signature, Date.)


10/11/2013

POINTS BIDDERS SHOULD BEAR IN MIND

- I. BIDS CONTAINING DEVIATIONS FROM BIDDING DOCUMENT TERMS AND OTHER CONDITIONS MAY BE REJECTED
- II. BIDS NOT ACCOMPANIED BY BID SECURITY (EARNEST MONEY DEPOSIT) SHALL BE SUMMARILY REJECTED
- III. NON-COMPLIANCE WITH EVEN A MINOR TECHNICAL REQUIREMENT SHOULD BE SPECIFICALLY STATED BY THE BIDDERS
- IV. BIDDERS SHOULD FURNISH THEIR COMPLETE ADDRESS FOR THE PURPOSE OF FURTHER CORRESPONDENCE PERTAINING TO BIDDING DOCUMENT
- V. CORRECTIONS IN THE BID SHOULD BE NOTED OVER AND INITIALED AT THE PLACE OF CORRECTIONS
- VI. NEGLIGENCE OF THE BIDDER IN PREPARING THE BID CONFERS NO RIGHT TO WITHDRAW THE BID AFTER IT WAS OPENED
- VII. SPECIFICATIONS, CONDITIONS, SCHEDULES AND DRAWINGS OF BIDDING DOCUMENT CONSTITUTE AN INTEGRAL PART OF THE BID
- VIII. ALL THE BIDS ALONGWITH ENCLOSURES, DRAWINGS AND TECHNICAL LITERATURE SHOULD BE IN ENGLISH ONLY
- IX. BIDDING DOCUMENT SHALL BE GOVERNED AND INTERPRETED ACCORDING TO THE SYSTEM AND COMPONENTS UNDER TROPICAL CONDITIONS
- X. ALL THE BIDDERS SHOULD SUBMIT QUALIFICATION APPLICATION IN THE GIVEN FORMATS WITH REQUIRED DOCUMENTATION
- XI. BIDS SHOULD BE KEPT VALID FOR ACCEPTANCE FOR A PERIOD OF 90 DAYS FROM THE DAY BIDS ARE OPENED
- XII. THE BIDDING DOCUMENT SHALL BE GOVERNED AND INTERPRETED ACCORDING TO THE LAWS OF THE UNION OF INDIA
- XIII. ALL BIDDERS ARE URGED TO SUBMIT PROMPTLY WRITTEN REQUESTS ON MATTERS WHERE CLARIFICATIONS OR ADDITIONAL INFORMATION ARE DESIRED, NOT LATER THAN SEVEN DAYS BEFORE BIDS ARE DUE TO OPENING. NO EXTENSION IN DUE DATE OF SUBMISSION OF BIDS WILL BE ALLOWED ON THIS GROUND
- XIV. ALL THE BIDDERS SHOULD QUOTE FOR THE ITEMS AS PER THE SPECIFICATIONS AND DETAILS GIVEN IN THIS BIDDING DOCUMENT ONLY. IN CASE, ALTERNATIVE DESIGNS ETC ARE TO BE OFFERED BY THE BIDDERS, THEY MAY DO SO BUT THIS SHOULD BE STATED SEPARATELY IN THE OFFER. ORISSA STATE CO-OPERATIVE MILK PRODUCERS' FEDERATION LIMITED RESERVES ITS RIGHT TO ACCEPT OR REJECT SUCH ALTERNATIVE OFFERS, WITHOUT ASSIGNING ANY REASONS THEREOF TO THE BIDDERS
- XV. THE BIDDERS WHO QUOTE FOR SUPERVISION OF ANY VANS SHOULD ALSO INDICATE THE PRICES IN THE BID SEPARATELY
- XVI. GENERAL MANAGER, SAMALESWARI REGIONAL CO-OPERATIVE MILK PRODUCERS' UNION LTD, SAMBALPUR RESERVES THE RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS WITHOUT ANY EXPLANATION TO BIDDERS

10/11/2013

Annexure - I

TECHNICAL SPECIFICATION OF BULK MILK COOLER BULK MILK COOLER (VERTICAL TYPE)

FUNCTIONAL REQUIRMENTS

(Bulk Milk Cooling Unit includes Bulk Cooler, DG set, Servo Stabilizer & Weighing Scale)

The Bulk cooling units shall be used to cool raw milk at the village level co-operative milk societies from the ambient temperature to 4 degree centigrade in conformity to specified ISI 5708 2A II standard.

The cooling tank shall be used for immediately cooling the milk after milking so as to conserve the quality of milk and check the growth of microorganism. It is intended for daily collection of milk. It is a hygienic container built to sanitary standards, which besides cooling also serves as buffer storage prior to transfer of milk for onwards transportation for further processing.

Two milking system has been configured such that volume of each milking is as under.

- | | |
|--|-----|
| i) Milking in the morning (upto 10 AM) | 60% |
| ii) Milking in the evening | 40% |

The agitator provided in the cooling tank works intermittently and at a very gentle speed to avoid damage to the fat globules of milk. The agitator works only at temperatures below 20-25°C so as to conserve butter fat structure.

TECHNICAL DATA

The bulk cooling tanks shall confirm to ISO 5708 standard with categorization under Type 2AII.

Bulk Milk Cooler with Cover and Standard Accessories

Tank inner, outer, bottom laser evaporator jacket and to open able cover shall be fabricated from Stainless Steel AISI 304 material and welded with TIG process. The inner shell and all other product contact surface shall be polished up to minimum 150 grit.

The tank shall be complete with following.

- Top un-insulated cover with locking arrangement, inspection window, provision for agitator mounting an specially configured milk inlet. The top cover shall be hinged with a rugged arrangement comprising oil filled cylinders and mechanical springs to facilitate complete opening of tank cover for inspection and tank cleaning. A proper lifting handle in SS 304 construction is provided.
- Milk inlet complete with specially designed funnel terminating in no foam inlet arrangement with SS fine wire mesh.
- Outlets complete with specially designed lockable butter fly valve size 51 mm and terminating in proper en connection with blank union.
- The insulation of the tank shall be done by injection, in situ, of high-density (minimum 40 kg/.m³, CFC free and environmental friendly) polyurethane foam without having any

imperfection and hygroscopicity. The efficiency of insulation is confirmed as per the requirement of ISO 5708 2A II (latest version) when the refrigeration unit is not working. Ball feet specially made to prevent tempering, which could result in erratic measurement.

- Agitator in SS 304 construction complete with direct mount specially designed motor. The agitator is designed for producing uniform distribution of fat in milk.

1.2 Milk Filter

Each system shall be provided with one AISI 304 filters with SS fine mesh suitable to filter extraneous matter such as dust particles, hay flies, cow dung etc. The filter shall be on balance tank. The filter shall be designed and installed in such a way that it can frequently & easily be cleaned. This milk filter shall be provided with balance tank only.

1.3 Stainless Steel Sanitary Milk Pump for loading and unloading of milk : A sanitary design mono block pump of 10 KLPH @ 10 MWC and driven by three phase motor in standard design for all the BMC Modules is included in the scope. The pump shall have SS vis carbon seal and will be provided with 38 mm inlet and 51mm outlet connections. The pump shall be shrouded with SS 304 cover and the impeller and product conduct parts in SS 304 material.

1.4 CIP Solution Holding Tank for BMC

The bulk milk storage tank and the piping system are designed for manual cleaning. As required one number AISI 304 plain un-insulated tank for capacity 500 ltrs. with cover shall be separately provided to prepare CIP solution for use white cleaning. The CIP solution shall be prepared in hot water manually. It shall be provided only for gravity feed systems. For pumped feed the balance tank shall serve as CIP Solution Preparation and Holding.

2.0 Refrigeration Unit

The refrigeration system is designed for operation on R22 refrigerant for reciprocating/scroll compressors. The condensing units shall meet the latest safety standards. The System has to run on **SCROLL/RECIPROATING COMPRESSOR**.

The refrigeration system should be designed with twin condensing units. The total evaporator circuit is divided in two segments and each segment is connected to an independent condensing unit in case of twin condensing unit.

2.1 Compressor – Hermetically sealed reciprocating/Scroll compressor complete with drive motor. The motor is fully enclosed suitable for specified electrical supply. It is confirmed that the hermetic is provided with thermostat temperature sensor for protection against excess heating due to over loading and short – circuiting.

Condenser– Air-cooled, screen protected compact condenser unit comprising of finned condenser coils in several rows. Condenser fans of reputed make are fitted for the duty. The air circulation fans shall be induced draft type that will ensure blowing the air from inside to outside thereby making the system suitable for dusty and dry areas.

2.3 Receiver - A suitable size liquid receiver is included in the circuit of each condensing unit that would hold the refrigerant during maintenance and otherwise during the pump down cycle at the end of operation.

2.4 Thermostatic Expansion Valve – A thermostatic expansion valve shall be of maximum operating pressure (MOP) type to ensure optimum quantity of refrigerant to the evaporator. It shall be ECTL make with suitably sized orifice if ECTL condensing units are considered and Danfoss Make if Danfoss condensing units are considered.

2.5 Evaporator– The Tenderer should ensure maximum efficiency of supplied system by using Laser welded evaporator having max. 5mm-9mm welding for max. cooling surface area with operating pressure of 30 bars and crash test pressure of 60 bars. Tenderer can be asked to show the sample of evaporator plate used. The evaporator shall be laser welded plate jacket put at the bottom plate of the inner tank. The total evaporator area is divided and separated in to two sections and each section shall be operated by one condensing unit. All connecting pipes terminating outside the tank are of stainless steel construction. The evaporator plate should be laser welded for all capacity bulk milk cooling tank.

2.6 Refrigerant Pipes & Fittings and Controls – Compressors are provided with isolation valves to ease the maintenance. Copper/SS tubing for refrigerant shall be properly laid to facilitate attending the leakage if occurred during operation without dismantling the total system. All pipes are properly clamped on fixed support and sponge insulated for protection.

3.0 ELECTRICAL CONTROL PANEL

Three control panels namely.

- 1) Main control panel with servo voltage stabilizer
- 2) Refrigeration control panel
- 3) Milk tank control panel are included in the scope.

Refrigeration control panel and milk tank control panels and the main control panel shall be conforming to following specifications:-

3.1 Main Control Panel with Servo Stabilizer Main Control Panel

This panel should be suitable to tap the incoming State Electricity Board supply and feed the refrigeration unit, agitator motor and milk unloading pump (from balance tank) and dispatch pump. The DG set should be hooked up with this panel through a '**manual change-over-switch**' in order to operate the DG set in place of State Electricity Board supply and & when required. It should be provided with necessary phase indication lamps (LED type), contractors, MCBs, ammeter, Voltmeter, energymeter, frequency-meter, push buttons, DG set running hour meter etc. A battery charger to trickle charge the battery when the DG set is in operation (charge indications shall be displayed on the panel) should be provided.

3 phase Voltage stabilizer (servo type) and single phase preventor: The system should have Voltage Stabilizer conforming to following features and single phase preventer of suitable rating:

- Input Range Phase – 300 to 325 VAC (three phase power supply)
- Output self adjustable for a range of $\pm 5\%$
- Supply Frequency - 47 to 53 Hz
- Load & Line Regulation – 1%
- Output A.C. Voltage correction for wide input variations

- No output waveform distortion
- Fast correction of output voltage :20V/sec.
- Auto/manual operation facility
- Under –voltage and over voltage cut-out arrangement Voltmeter with facility to read input or output voltage
- High efficiency
- Compact and modular construction for ease in servicing
- M.C.B. on input circuit
- The ratings considered for BMC 63 KVA

3.3 Refrigeration Control Panel :

One number control panel in dust and vermin proof design in stainless steel enclosure suitable for mounting one the wall is included. The panel is pre-wired to terminal connections and shall comprise of the following:

- In coming MCB to receive power from main control panel (In stabilizer) Line Voltage Controller to guard the compressor against voltage supply fluctuation.
- Sequential controller with timer delay arrangement to avoid surge on power supply.
- Selector switch for auto/manual mode of operation.
- One number Switchgear i.e. contractors and overload relay for the motor of compressor, condenser and agitator.

3.4 Milk Tank Control Panel

This panel shall be mounted on the bulk milk storage tank together with refrigeration control panel. It is a pre manufactured control panel in SS 304 construction in dust and vermin proof design comprising the following:

- Digital Temperature Indicator and display range (0 to 100 Deg.C)
- Selector facility for selecting operation of agitator and compressors on auto or manual arrangement.

3.5Cables & Electrical Switch Gears

The electrical switchgears as required are included in the control panels mentioned above. All power and control cabling between Main Control Panel. Refrigeration Panel and milk panel shall be flexible un-armoured, wherever laid through conduits. The conduits shall be heavy duty PVC type.

Earthing shall be standard copper plate earthing should be provided for DG set Body earthing of all panels and Neutral line conforming to IE rules. Supply of cables including earthing cable is within the scope of the bidder.

4.0 Pumped Feed System

Inter connecting and Fittings : One lot of SS pipes and fittings shall be supplied to interconnect the bulk cooler with balance tank, milk pump and tanker unloading hose. The piping shall include necessary butterfly valves, SS unions and support pipe holders. SS prop support shall be used to hold SS pipe holders for supporting from walls/floor. The SS 304 inline strainer shall be provided before the balance tank.

Balance Tank: A plain un-insulated construction balance tank cap 500 L for complete with cover, SS ball feet, and inlet and outlet connection is included to receive milk after weighment by direct tipping. A design of the balance tank shall be such that no milk should leave in the balance tank after reception.

Tanker loading Hose 38mm: A nylon braided hosepipe for unloading milk from the cooling tank shall be supplied. A length of 10 mtrs. is considered in the scope of supply.

4.1 . INSTALLATION, COMMISSIONING & TRAINING

Installation

The price quoted for installation and commissioning is considering that the entire lot of bulk coolers shall be supplied installed, commissioned and handed over for use within the period specified.

The necessary pre-requisites on building, water and mains supply shall be made available timely including the availability of technical/skilled operator to be trained.

Milk Unions shall make necessary arrangements at respective sites to store the dispatched material including its safe custody in case the site is not ready to take up installation. The payments against supply shall be made in the building as per pre-decided time schedule and the work shall be taken up only when the site is complete as per requirement and handed over for installation.

The scope of installation shall be within specified battery limits and exclusions.

4.2 Commissioning:

The commissioning of the bulk coolers along with the performance trial shall be done at each bulk-cooling site. In case milk is not available in adequate quantity the performance test i.e. capacity trial shall be conducted on water with the results deemed to have concluded the performance trial.

A period of two/three days at each collection center is estimated and included for performance trial and commissioning to have over the installation.

4.3 Training

Tenderer shall arrange for training of the team of DCS staff for efficient operation and maintenance of the complete system.

8.4 Tool Box and Operation Manual

A GI Sheet toolbox containing one set of all necessary tools required for regular maintenance of the unit shall be supplied along with the BMC.

Two set of operation & maintenance manual in Hindi and English containing complete details of starting, putting off, critical checks and day-to-day maintenance of the complete system shall be supplied. The manual shall also have the required electrical circuit diagrams.

TECHNICAL DATA SHEET FOR BULK COOLING UNIT.

Sl no.	Description	2000 Litter per Day (3 Phase)
A.	MILK TANK	
1.	Capacity – RATED/GROSS	Rated 1000/ Gross – 2000/5000 L
2.	Make and model	To be specified by Bidder
3.	Material used for construction (SS304/3016)	To be specified by Bidder
4.	Overall dimensions (without CDU) (LXWXH)	To be specified by Bidder
5.	Weight (with CDU)	To be specified by Bidder
6.	No. and RPM of agitators	To be specified by Bidder
7.	CIP facility	To be specified by Bidder
8.	Thickness of Inner shell	To be specified by Bidder
9.	Thickness of Outer shell	To be specified by Bidder
10.	INSULATION:	
11.	Type	To be specified by Bidder
12.	Thickness (mm)	To be specified by Bidder
13.	Density	To be specified by Bidder
14.	Efficiency	To be specified by Bidder
15.	Facility to measure milk volume	To be specified by Bidder
16.	Type of Refrigerant	To be specified by Bidder
B.	REFRIGERATION UNIT (Two independent unit one standby & one operational)	To be specified by Bidder
17.	Condensing Unit Model for two numbers (DANFOSS/EMERSON/ EQUIVALENT)	To be specified by Bidder
18.	Model of Compressor for two numbers (DANFOSS/EMERSON/ EQUIVALENT)	To be specified by Bidder
19.	Condenser Cooling	Air Cooled
20.	No. of Compressor	Two
21.	Cooling capacity	Two
22.	Cooling capacity of compressor at 0 deg evaporating and +50deg condensing temp.(Kcal/Hr)	Two

Date

Signature with Seal:

Annexure - II**DIESEL GENERATOR****TECHNICAL SPECIFICATION OF D.G.SET**

Sl no.	Description	Specifications Required
1.	General Operating and Design conditions	The DG set shall be of capacity: • 15 KVA three phase, air or water cooled for I 2 KL BMC & The DG set should be heavy duty design , industrial type, rated for continuous operation for the refrigeration system, milk tank agitator & milk dispatch pump, hot water geyser (approx. 2,0 kW), AMCU, Lightings, Ceiling fan. The diesel engine and alternator should be mounted on specially designed combination base plate and MS structure of extremely rigid fabrication. The base frame should be suitable for mounting the set on AVM pads over the foundation.
2.	Confirmation to regulatory norms for environment and Approval from Local authorities	• DG set should carry a valid approval certificate issued as per CPCB norms complying with the provision of the Environment (Protection) second Amendment Rules 2002, vide notification no G. S. R. 371 (E), dated 17th May 2002& amended by GSR 448 (E) dt.12/07/2004. • Also compliant with new CPCB II norms applicable from April 1, 2014. • The exhaust pipe with exhaust muffler with insertion loss of minimum 25 dB (A) is connected to the exhaust manifold preferably with flexible bellows. • In case the DG Set is located within the BMC building, the exhaust pipe with insulation & cladding of adequate length be provided extending the original pipe over the roof of the building to avoid pollution in and around the location. • Supplier to obtain the approval of Local authorities in case it is required by the rules.
3.	Diesel Engine	• The diesel engine should be suitable for Power Generation application type air or water cooled and capable of developing required BHP when running at 1500 rpm under NTP conditions. • The engine should be built to IS 10000/ISO 3046/BS 5514/649 and rated for continuous running of 24 hours with an overload capacity of 10 % for a period not exceeding 1 hour in any 12 hours running. Diesel engine up to 20 kW should have valid BIS license and certificate clearly mentioning use for 'General purpose

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		application as per IS 10001 norms. • Engine ratings should be for operation at full load condition and should be suitable to take 100% block load. • Self-starting arrangement with 12V suitable rated heavy-duty Lead Acid accumulator type battery with Solid-state battery charging arrangement and cables. • Standard set of tools. First fill of Lubricating oil, First fill of coolant, Lubricating oil pressure & temp. gauge, • Standard set of tools. First fill of Lubricating oil, First fill of coolant, Lubricating oil pressure & temp. gauge, • Control panel for engine with engine safety temperature, V-belt failure, low lub oil pressure, low water level in radiator auxiliary failure, air cleaner choke indicator. • Steel Diesel Storage barrel of 200 lit capacity with manual pump
4.	Engine Instrument Panel (Mechanical and/or electronic gauges)	Consist of Ignition key, Starting push button, Lubricating oil pressure gauge, Temperature gauge for cooling water, Temperature gauge for lubricating oil, RPM meter (Analog type), Battery charging ammeter
6.	Alternator	The engine should be closely / flexible coupled to suitable selfexcited, self regulated (through an AVR) alternator developing required KVA at 0.8 power factor, 1 phase/3 phase, 50 cycle/sec, 230 volts AC power supply under NTP conditions when running at 1500 RPM. The alternator should be brushless type, screen protected and fitted with end shield and ball roller bearings. The alternator shall have 'H' class of insulation. It shall conform to IS13364 (Part 1) 1992 up to 20 KVA, IS 13364 (part II) 1992 or IS 4722 of 1992 above 20 KVA.
5	Control Panel	The diesel generating set to have suitable control panel duly prewired with the following instruments: One ammeter with selector switch, One energy meter with selector switch, Hour meter, One suitable capacity MCCB with overload and short circuit protection to disconnect power supply in case load of generating set increases beyond permitted limits. The rupturing capacity of the MCCB should not be less than 25 kA. One set of indicating lamps and control fuses.

Signature:

Seal:

Date:

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THECHNICAL SPECIFICATIONS FOR STABILIZERS

SI no.	Particulars	Technical Specifications
1.	Servo Voltage Stabilizer (Oil cooled)	Required for stabilizing the power supply to BMC from grid or DG set. 16 KVA - 3 Phase for 2 KL BMC
2.	Voltage range	90 to 260 V for 1phase and 260 to 500 for 3 phase BMC
	Voltage Out Put	230 V +/- 1% for Single Phase 415 V +/- 1% for 3 Phase
	Voltage correction	35V/Sec
3.	Rating	15 KVA- 3 Phase 25 KVA - 3 Phase
4.	MOC, thickness & type of structure	MS powder coated , 1.6 mm & pipe structure
5.	Accessories for 1 phase stabilizer	63A MCCB for incoming , 63 A phase selector, changeover and bypass switch, LED lamps, Servo controlled correction transformer, Digital V,I,F indicator for input & output, 63 A terminal blocks, OV/UV trip with delay time, single phase preventer, static type energy meter with 10-60 A capacity, Brass metal glands, MCB's (DP 63 A-2nos, DP 32 A-1 no, Dp 16A-1 no), Metallic pump socket, Servo Motor.
6.	Accessories for 3 Phase stabilizer	40 A MCCB for incoming , 40A phase selector, change-over and bypass switch, LED lamps, Servo controlled correction transformer, Digital V,I,F indicator for input & output, 63A terminal blocks, OV,UV trip with delay time, single phase preventer, static type energy meter with 10-60A capacity. Brass metal glands, MCB's (TPN 40A - 2 nos , TPN 32 A-1no, TPN 16 A-1no), Metallic pump socket, Servo Motor.
7.	Operating features	Cable entry from top, response time -5 milliseconds, should withstand 150% load on surge duty, capacity of terminals should be 150% of rated current, Dimmer with CRGO core, Separate Auto/manual facility, plug in type control card for each phase, correction speed-105 v/s, Efficiency-99.5%.

SPECIFICATION OF WEIGHING BALANCE

Platform type Electronic Weighing Machine CAS Brand

Model DB-1 H with SS Plat form size 500 MM X 500 MM

Display digit - 5 Nos. Power source - AC 220V/50HZ

Capacity : 200 Kg. X 20 Gms.

- Soft Touch tact switch
- Easy to read VFD Display
- Unique design steel frame with metallic grey powder coating
- Solid Back Rail
- single piece frame work system
- Hold function
- Operating Temp (10°C to 40 °C)

N.B: Stamping & verification of Weighing Machine by the weights & measure Deptt. shall get done by the Machine supplier at their own cost.

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Annexure - V

AMCU With operating Software

Technical specifications for Automatic Milk Collection Unit

1.0 Functional Requirements:

1.1 The Unit should be suitable for instant weighing of milk, measuring fat & SNF content, calculating the amount payable to the member based on fat and/or fat & SNF weight, printing the amount calculated thereof with member identification details. The Unit shall also be used for maintaining the main records of the collection centre together with the details of milk business transactions of the village co-operative society /MCC.

1.2 The Unit should be able to measure milk component contents viz. fat from 0.5 % to 12 % & SNF from 6% to 12 % and able to weigh milk up to 200 kg per batch at a time. This should process approximately 70 samples of milk per hour.

2.0 Design & Other Requirements:

The AMCU specs detailed below are minimum required specification. The vendor has to provide for all the components/ tools/ software required for meeting operational & functional requirement. Bidders can offer better & higher version specs if available with them which could be considered, but without any extra weight age.

2.1 Operating Environment

All the components of the AMCU should be rugged and must operate in dusty, hot and humid village Environment where power outages and supply fluctuations are frequent. The operators may not be Skilled persons and not conversant in using electronic equipment

- **Power supply**
- **Ambient Temperature : 5 - 50°C Relative Humidity : 50 % to 95 %**

2.2 Operational provisions

2.2.1 Installation and Commissioning: This is a complete job for supply, installation, testing and commissioning of the AMCU and any item not mentioned in this document but necessary for the proper functioning of the unit shall be provided by the supplier free of cost. All the components of the AMCU should be assembled, configured, commissioned and demonstrated for the purpose of smooth milk collection by the supplier to the satisfaction of the user. The bidder should install and provide all the inputs/materials for the proper earthing as per local Electricity Board Regulations.

2.2.2 Warranty: All the components included in the AMCU shall be warranted for 3 year comprehensive warranty except Burnt & broken items are not covered. Supplier to ensure the installation and commissioning of proper earthing before start of actual operation of AMCU.

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Sr.No	Particulars	Specification
3.0	Basic Operations at Society	All operations are manual or semi-automated at society level. No regular power supply is available and fluctuation in power supply is very high. Clean and dust free environment cannot be guaranteed. The operators may not be IT savvy. Major Activities at Society. . Purchase of Milk . Payments to producers for milk poured, government subsidies, incentives for quality etc. . Purchase of Cattle feed. . Purchase of Ghee . Other Purchases . Expenditure for Services . Other Expenditures . Local Sale of Milk . Supply/Sale of Milk to the Union . Sale of Cattle Feed . Sale of Ghee . Support of AH, AI etc . Income from Services . Other Income
4.0	AMCU-Functional Requirements	. The Unit should be suitable for instant weighing of milk, measuring record fat content, calculating the amount payable to the member based on fat & weight, printing the amount calculated thereof with member identification details. . This unit should also be used for maintaining the complete record of the collection centre as above together with the details of all transactions of the producers/MCC. . Recommended to incorporate capability for online data transfer to Milk Union and designated local Banks for transfer of payments to milk producers in their bank accounts directly.
5.0	Computer Hardware and Software	Models of PC offered should be of Enterprises/Business Class Desktop PC (OEM).Home/SMB Class Desktop PC shall not be accepted.
5.1	Processor	. 4 th Generation Intel Core, 64 Bit, I-5 Processor
5.2	Form Factor	. Tower Model
5.3	Chipset	. Intel Chipset supporting the above processor
5.4	Memory	. 4 GB DDR3 1333 MHz SDRAM expandable to 8 GB
5.5	Internal Storage	. 1 TB SATA II Hard Disk 240 GB SSD
5.6	Removable Media	. DVD+/- RW Writer
5.7	Graphics	. Integrated Intel HD Graphics supporting 1600x1200 Resolutions
5.8	Audio	. Integrated high definition audio
5.9	Network	. 10/100/1000 Mbps Gigabit Ethernet
5.10	Display Monitor	. 18.5" wide screen LCD/LED Backlit TFT Color HD Monitor

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		with 1366x 768 native resolutions.
5.11	Input Devices	. USB Standard Keyboard and USB Optical button Scroll Mouse with Pad.
5.12	Ports & Connectors	. 3 Serial Port, 1 Parallel Port, 1 VGA Port, 1 Microphone/ Headphone Jack, 1 RJ45 Port
5.13	USB Ports	. 6 USB 2.0 Ports (Min. two on front and two on rear side)
5.14	PCI Slots	. Minimum 1 free PCI Slots
5.15	Compatibility	. Window 10/ Window 11
5.16	Operating System	. Licensed Windows 10 professional 64 bit Preloaded with OS Recovery Media Driver CD.
Sr.No	Particulars	Specification
5.17	Anti Virus	. Norton,Symantec,etruat,Macfee,Trend Micro,Quick Heal Latest version with three (3) years license.
5.18	Warrantee obligation	. call should be attended by next business day. . problem resolved within 48 hours of attending the call. . within 48 hours in case any part is to be replaced.
5.19	Scope of work	. Installation and configuration
5.20	Application Software	. Supplier to develop and provide Integrated AMCU Software for all functions & requirements of Milk collection centre. Supplier to finalize requirements from EIA for all Milk Collection centers, develop/modify a software and install in each AMCU with a testing period of software for 6 months from the date of installation of software and subsequent one time modifications in the software based on feedback /request from EIA/Milk Collection centers to be done without extra charges. . Software should be Bi-Lingual (English Language) . Data generated from the new system should be compatible with the format in which the data is accepted by the existing system. . The Software should be user friendly, menu driven and provide help facility in local language. . The data input forms, reports, menus etc. should be in English. . The application software, if felt essential by the user may be modified/upgraded to meet the need of the milk collection centre. . The software should have provision of connectivity of such milk collection center with milk collection agencies head office in the future. . The supplier should also make necessary changes on case-to-case basis, wherever required. The application package should contain legal copy of the database used.
6.0	DOT MATRIX PRINTER	
6.1	Print Method	Impact dot Matrix external printer
6.2	Pins in head	24 pins
6.3	Print Direction	Bi-direction parallel interface USB 2.0 (Full speed)

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6.4	Print Speed	300 cps high speed draft, LQ and other features
6.5	Printable column	80 (10 cpi)
6.6	Paper Handling	Pull tractor unit
6.7	Paper path	Manual insertion front or rear in top out: Push Tractor front or rear in top out - front or rear or bottom in and top out.
6.8	MTBF (Hrs at 25% duty cycle)	10000 POH (25% Duty)
6.9	Copy Capability	Original 3 copies
6.10	Cartridge	Ribbon cartridge Black with 2.5 million characters
6.11	Compatible OS with Drivers	MS Windows 8/7/Vista/XP(32bit/64 bit), Windows Server 2003/2008/2012 (32 bit/64 bit)
6.12	Accessories	Roll Stand
7.0	Electronic Weigh Scale	
7.1	Functional Requirement	To Electronically weigh & digital display of milk quantity in litre in a container
7.2	Capacity	200 kg
7.3	Least Count	20 gm
7.4	Weight Accuracy	20 gm as per Standards of W & M Rules 1987 medium accuracy Class III
Sr.No	Particulars	Specification
7.5	Certification & Stamping	Duly Certified and stamped by W&M Dept. and confirming to IS:9281(pt 1&2) 1979, IS:9281 and IS:9281 (pt.4) 1983 as amended up-to-date.
7.6	Display Resolution	1/10,000 (accuracy, Class-III)
7.7	Load Cell	300kg S/S ADI
7.8	Over Load & shock Load Protection	300% to take impact of loading with audio (beep) visual indication
7.9	Platform Size	600 mm X 600 mm
7.10	Platform Moc	AISI SS 304, 1.6 mm thick, 150 grit top plate
7.11	Platform under frame material/design	• Cold rolled mild steel box of adequate size, Hot dip galvanized after fabrication • All screw/bolts/nuts to be of SS.
7.12	Indication in display EWS Unit	Quantity-7 segment RED LED, 6 digits, minimum 1.3 mm height, display for mode of operation zero, tare, kg/litre, by default KG.
7.13	Display Unit Mounting	• Pole mounted type with sturdy base and SS 304, 38 mm dia, pipe 1.2 m high. • SS 304 Body IP 55, Tactile Switch keys with feedback response, auto calibration & auto span with drift correction • RS 232 Serial port with protocol to meet requirement of IBM compatible.
7.14	Calibration protection & Sealing Arrangement	• Special arrangement to house PCB & Sealing arrangement
7.15	Load Cell Cable	Load Cell cable from platform to display unit with reinforced heavy duty PVC conduit.
7.16	Battery for working on power failure	In built, 6 V capacity minimum for 6 hrs.
7.17	Power Supply	As given above with minimum 1 m power cable with plug top

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		AC/SC
7.18	Model Approval Certificate	Manufacturer to have model approval certificate of regulatory authority/ Govt of India (Weight & Measure Unit)
7.19	Stamping at Site	Supplier to arrange stamping of each scale at site from local weights & measure inspector before installation. Supplier should include the cost of stamping in the unit of AMCU for the 1 st year only. Stamping of each weighing scale from 2 nd year onwards will be in the scope of EIA.
8.0	Milk Analyzer	Analyzer Inbuilt with Lithium battery Backup Stand by -5 - 6 hours , virtual charging by Electric / Solar panel Cap-40watt.
8.1	Functional Requirement	To test & display FAT, SNF & Added water/Lactose/Protein/ Salts sample Milk
8.2	Type	Direct FAT:0.5% to 12% accuracy+/-0.1% Measuring 12% to 15% accuracy+/-0.2% Parameters: SNF: 6% to 15% accuracy+/-0.15% Temperature : 1°C to 40°C Calculated CLR:15 to 40 accuracy+/-1 Parameters: Protein :2% to 7% accuracy+/-0.1 Lactose: 0.01% to 6% accuracy+/-0.2 Resolution: Added Water In Milk 0% to 99% Accuracy+/-3% FAT,SNF,Lactose,Protein,Salts : 0.01% Tempearture : 1°C CLR:0.5, Added Water:1% Repeatability: FAT: +/-0.07% SNF: +/-0.1%, CLR: +/-0.5 Milk Testing Time(Measurement) – 25 Sec
Sr.No	Particulars	Specification
8.3	Technical's	Milk Temperature : 1 to 40°C Measurement Time: 25 Sec Sample Volume: 15 ml Average Speed: 120 samples/hr Number of Calibration: 3 Operation Time Limit: Continuous Display: High contrast blue / green backlight 4 line 20 character LCD Display. Average Speed: 120/hr Environmental: Ambient Temperature 10°C to 40°C Conditions: Relative Humidity 30 to 80%
8.4	Electricals	Power Input: 160-240V AC, 50HZ Voltage 12 +/-0.05V DC/10A (Max) Output: Average Power 30W Peak Power 120W
8.5	Manual	Operating Manual each in English & Local language per AMCU supply

9.0	Ultrasonic Milk Sample Stirrer	
9.1	Functional Requirement	To remove air from fresh milk sample by vibrations created in the milk before testing of milk.
9.2	Type	Table Top, Ultrasonic Stirrer
9.3	Stirrer for Ultrasonic Stirrer	SS Ball Type
9.4	Ultrasonic Frequency	20-25 KHz (Variable)
9.5	Timer	1-99 Sec selectable
9.6	Environment	Suitable for dusty/humid village environment, operating temperature -5 to 50 Degree C
9.7	Complete Ready to Use	Item complete in all respect with required electric/electronic parts, ready for use at site.
9.8	MoC For body	AISI 304, 1.2 mm thick minimum
9.9	Operating Voltage	230 Volts +/-10, AC, 50 Hz and 12 Volts DC
10.0	REMOTE DISPLAY UNIT (RDU)	
10.1	Functional Requirement	To display pourer members milk collected & milk testing and other selected parameters in English/ Local Language
10.2	Type	Wall mounted type
10.3	Display Parameters -8 No	7 Bright segments, Red LED,
10.4	Labels for display	Screen Printed
10.5	Environment	Dusty, Humid, preferably housing to be with IP 55 or equivalent protection, rust proof powder coated metallic.
10.6	Connecting Cables	Minimum 5 m Power cable with plug top with connector at both ends, Minimum 5 m Data cable with connector at both ends
11.0	UPS	
11.1	Functional Requirement	To give regulated AC power to AMCU from mains or attached battery
11.2	Type	Line-Interactive type
11.3	Capacity	1500 VA minimum
11.4	Back up time (Full Load)	3-hrs minimum (in one shift)
11.5	Output Wave Form	Sine Wave/Quasi Sine wave
11.6	Voltage at input	160-280 V (+10%)
11.7	D C Voltage Bus	24 V
11.8	Voltage at output (With Mains as well as with Battery) with in-built AVR	220V +/- 10%
Sr.No	Particulars	Specification
11.9	Full protection	Inbuilt protection - Under / Over voltage, Short-circuit, Overload Cut off, Low Battery Cut-off, Spikes cut-off
11.10	Warning (LED+ Sound)	Low Battery & Overloads
11.11	Input/ Output Frequency	50Hz +/- 3Hz, No Correction
11.12	Battery switch over	Battery switch over in 3-10 milli seconds
11.13	Battery Charging	Preferably to take place even at 130 & 300 V with SMPS charger • Boost charging at minimum 7A • Battery overcharge protection

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11.14	Battery No and Type	2 No 90 AH Tubular, Acid filled, low maintenance battery with level indicator (Maintenance free Battery desirable)
11.15	Charging Indicator	Battery charging indicator plus low battery/ fault indicator to be provided
11.16	Battery Steel Rack	Required
11.17	Leads between UPS & Battery	Flexible, Cu conductor PVC, Minimum 1 m with lugs at both ends.
11.18	Warranty of Battery	3 years against manufacturing defect.
11.19	Steel rack for UPS	Required to place UPS above floor
11.20	No load loss at 24 Volt when UPS is ON	Minimum
11.21	INVERTER & BATTERY	Microtek, Livguard, Luminous
12.0	Earthling - Earth Electrode (Gel type) (Optional)	
12.1	Technology	Earth Electrode (Gel type) maintenance free earthing. Mineral Filling Compound (MFC), surrounded to earth electrode creates low resistance zone so that output is constant for longer life.
12.2	Pipe Material	Galvanized Pipe as per IS : 1239
12.3	Class of Pipe	Class-B
12.4	Diameter (Outer Dia.)	48 mm
12.5	Length	2 Meter
12.6	Wall Thickness	2.5 mm
12.7	Primary Electrode	Mild Steel Strip
12.8	Mild Steel Strip	2.12 m long, 32 mm wide and 6 mm thick
12.9	MS Strip hot dip Galvanized thickness	110 micron
12.10	Gel Filled	Highly non-corrosive compound
12.11	Earth wire to connect Electrode with Power Supply.	Copper 8 m long & 8 mm dia suitable for interconnection
12.12	Filling compound	Adequate
12.13	Civil works	chamber to secure the earthling

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Annexure - VI

TECHNICAL SPECIFICATION

ALUMINIUM MILK CAN- 40 LTRS CAPACITY WITH CAN LID

SHAPE AND DIMENSIONS -

Legends : 40 Liter capacity of Aluminium Milk Can

Height of the Can	: 591 + 4 (mm)
Depth of the Can	: 575 + 3 (mm)
Inside dia of the Can	: 340 + 3 (mm)
Mouth of the Can	: 200 + 5 (mm)
Dia of Bottom Bend	: 352 + 3 (mm)
Wall Thickness	: 2.00 (mm)
Bottom Thickness	: 3.00 (mm)
Shoulder Thickness	: 2.50 (mm)
Weight Milk can with lid	: 6.42 K.G $\pm$ 100 gm
Only Milk can Lid	: 0.928 K.G $\pm$ 50 gm

- Cans shall be made from one-piece monoblock design.
- Cans have a minimum hardness of 85 BHN and higher body thickness to withstand dents from handling.
- Bottom ring of milk can is press shrink fitted and then fully Mig welded all around for extra strength and longer life
- Handles are properly bent with ends chamfered, which ensures firm grip.
- Can lids are spot welded at five places and brazed all around with sanitary finish, which ensures hygiene.
- Can and lids are pretreated and then anodized.
- Adequate air space should be provided in order to adjust the volume of milk.

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TECHNICAL SPECIFICATION

STAINLESS STEEL (SS) MILK CAN OF 5 LTRS CAPACITY

1-SHAPE AND DIMENSIONS - The cans shall be manufactured in accordance with the shape and dimensions as given below.

LEGENDS: 5 liter stainless Steel Milk Can

Materials of construction : ISS 304 SS Grade.

Height with lid	: 248 MM +- 4 MM
Hardness in BHN	: 85
Bottom Dish	: 165 MM + 3 MM
Thickness	: 0.8+-0.05 (mm)
Lid Dia	: 139 MM +- 1 MM
Lid Depth	: 30.5 MM
Weight	: 815 grm +/- 5 grm
Can Lid	: 100 +-10 gm
Internal Diameter	: 176mm+-3mm
Neck Diameter	: 130mm+-1mm

2-The Minimum Thickness of different parts of the cans (in mille meter)

Part

- Body 0.5 mm
- Bottom 0.6mm □ neck 0.4mm
- Lid(saucer/Outer) 0.5mm

Cans are made from SS 304 grade of stainless steel material only.

SS Bucket type mono block design without having any welding joint.

CAPACITY – The can should be designed to accommodate at least 5.5ltr of water.

SCOPE - This standard prescribes the requirement for stainless steel milk cans used for collection and distribution of fluid milk.

DESIGN- can have to be designed in such a way that it shall transport its contents safely without spillage and with minimum of churning. It shall also withstand rough handling,

occupy minimum space on trucks or Lorries, allow a high degree of sterilization and shall also facilitate cleaning. Further, it has to be light and durable.

BODY -Cans shall be formed in a single piece construction made in SS 304 grade.

LID -The lid should be single piece construction without any welding joint, made out of AISI 304 grade (IS:5522) only. The can lid should be single PCS dome shape should be in such that water is not logged or Dust particular during its transportation or storage of Milk Cans.

The lid should have collapsible handle.

WELDING- The can shall be welded by TIG or MIG process with argon as inert gas medium and only, AWS ER 308 L filler wire shall be used. 5.6.6 Finish On visual examination there shall be no cracks, notching or porous patches in the welded surfaces and the surface adjacent to the weld. The weld surface shall be regular and even. All welded joints, inside surface and outside surface shall be finished smooth to minimum 220 grit or maximum Ra value 0.48 μm to provide a sanitary finish.

Common condition for SS Can & Aluminium Can :-

MARKING - Each can shall be marked legibly and permanently with at least following particulars:

- a) Manufacturer's name or initial or trademark, if any
- b) The rated capacity of the Can in Liters.
- c) Batch or code number and year of manufacture
- d) Buyer's logo or identification mark
- e) Material of Construction 304 grade/ IS: 1825/1983.
- f) Capacity mark on inside surface of the can

Sample: Sample should be furnished along with the tender. The tenders without sample will be summarily rejected. The Federation is not liable to pay any cost for samples.

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Annexure - VIII

List of Milk Testing Equipments with specification – 1 Set

Sl No	Name of Milk Collection Equipments/ Accessories and Milk Testing	Qty/No	Unit Price FOR including all Taxes (in Rs.)	Total Amount (in RS.)
1	Milk Collection Tray, made 1.2mm thick S S 304, size 440x590x65mm, Minimum weight -4200gm.	1		
2	Milk Sampler, Made from 1.2mm thick S S 304. Minimum weight -90gm	1		
3	Lactometer Cylinder, made from S S 304 Pipe having 1.6mm wall thickness ,Minimum weight 270 gm	1		
4	Funnel with Strainer, made from 1.2mm thick S S 304. Minimum weight -1600gm	1		
5	Strainer Sieve for Funnel, Material S S 304	1		
6	Measure 100 ML, Made from 1.25mm thick S S 304. Minimum weight 125gm	1		
7	Measure 200 ML, made from 1.25mm thick S S 304. Minimum weight -180gm	1		
8	Measure 500ML, made from 1.6mm thick S S 304. Minimum weight- 425gm	1		
9	Measure 1000ML, made form 1.6mm thick S S 304. Minimum weight- 650gm	1		
10	Milk Can Plunger, made from SS 304. Minimum weight-650gm	1		
11	Milk Bucket, made from S S 200 series, seamless with bottom ring, 15 litre capacity. Minimum weight -1600 gm	1		
12	Centrifuge machine Gerber 24 tests (Manual)	1		
13	Lock Stoppers, Brass (Dozen)	2		
14	Lock Stopper Keys (Aluminium)	2		
15	Lactometer Zeal type ,0 to 40 with ½ division, Calibrated at 84 F, Accuracy+ _0.25 LR	2		
16	Thermometer (Alcohol), 0 to 1000 C, yellow back, accuracy 100%	2		
17	Pipette 10.75 ml ,ISI mark Double tested	2		

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	(Borosil)			
18	Test tubes 18 X 150 mm (Borosil)	6		
19	Butyrometers (ISI Make), double tested, for milk 0-10%, accuracy 100%	30		
20	Porcelain dish , 3 Inch	1		
21	Spirit lamp stainless steel,100ml	1		
22	Graduated pipettes 10 ml (Borosil)	2		
23	Butyrometers shaking stand ,12 holes(HDPE)	2		
24	Steel sample bottle,50 ml with cap, made from food grade	60		
25	Steel tray for holding 24 nos sample bottle securely, made from food grade .	2		
26	Tray for reagents, size 16 x12inches, made from food grade.	1		
27	Plastic tilt measure 1 ml for alcohol with rubber cork & plastic bottle of 250 m.l	2		
28	Plastic tilt measure 1 ml for alcohol with rubber cork & Plastic bottle of 500 ml	2		
29	Test tube Stand for 12 tubes of size 18x150 m.m, aluminium	1		
30	Nylon Brush for cleaning Butyrometers, full length bristle	5		
31	Nylon Brush for cleaning pipettes nylon length 4 Inches, total length 12 inches., full length bristle	5		
32	Nylon Brush for cleaning 50 ml milk sample bottle nylon length 4 Inches, with tail & thick steel wire	5		
33	Plastic measuring jug for acid dilution,1litre	1		
34	Plastic hammer for can opening	1		

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ANNEXURE - 'A'

REQUIREMENT OF MATERIALS/ITEMS

Sl.No.	Name of the ITEM	Capacity	Qty.	Place
1.	Bulk Milk Cooler(BMC)	2 KL (3 Phase)	1 Set	BMC Naktideul
2.	D.G.Set, Servo Voltage	16 KVA 3 Phase	1 No	BMC Naktideul
3.	Servo Stabilizer (Oil cooled)	16 KVA 3 Phase	1 No	BMC Naktideul
4.	Weighing balance	200/500 Kg	1 No	BMC Naktideul
5.	AMCU	Set	50	30 Nos. New DCS & 20 Nos. existing DCS
6.	Milk Testing Equipments (MTE) & Stationeries	Set	30	30 Nos. New DCS
7.	Aluminium Milk Can	40 Ltrs.	120 Nos.	30 Nos. New DCS
8.	S.S Milk Can	5 Ltrs.	1500 Nos.	30 Nos. New DCS

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ANNEXURE - 'B'

REQUIREMENT OF FURNITURE & FIXTURE

Sl.No.	Name of the ITEM	Qty.	Place
1.	Almirah 78" H x 36" W x 19" D with 4 Shelves	30 Nos.	30 Nos. New MPCS
2.	Table 60" W x 36" D x 30" H with Drawer	30 Nos.	30 Nos. New MPCS
3.	Steel Chair	30 Nos.	30 Nos. New MPCS
4.	Plastic Chair (4 Nos. Chair X 30 MPCS)	120 Nos.	30 Nos. New MPCS

10/11/2003