



**THE JHARKHAND STATE COOPERATIVE MILK
PRODUCERS' FEDERATION LTD.**

FTC CAMPUS, SEC-2, DHURWA, RANCHI – 834004
Ph.: +91-(0651) 2543062, MOB: 7544003404/7360035219,
Email: purchase@jmf.coop, Website: www.jmf.coop



**TENDER INVITATION FOR SUPPLY, INSTALLATION
& COMMISSIONING OF SOLAR BASED DATA
PROCESSING MILK COLLECTION UNIT**

Tender No. JMF-PI-Solar Based-DPMCU/2020-21/077



Date of Tender Published : 13 Feb 2021
Last date for submission of Tender : 02 March 2021 by 17:00 hrs

Opening of Technical Tender:

Date: 03 March 2021 at 03.30 P.M.
At Medha Dairy Plant.
Hotwar, (Khelgaon), Ranchi,
Jharkhand – 835217

Opening of Financial Tender:

Shall be notified Later after opening of
Technical Bid.

Name of Bidder: _____

Address: _____

Telephone no: _____

Email Id _____

Regd. /Head Office:

Near FTC Campus, Sec-II, H.E.C., Dhurwa, Ranchi – 834004, Jharkhand
Ph: 7544003404/7360035219/0651-2443055/62
Email: purchase@jmf.coop



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BIDDING DOCUMENT

TENDER FOR SUPPLY SOLAR BASED DATA
PROCESSING MILK COLLECTION UNIT

DUE ON 02.03.2021 (By 5.00 PM)

(COMPLETE BIDDING DOCUMENT)



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(INDEX)

<u>S.NO.</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
1.	TENDER INVITATION DETAIL	4
2.	TENDER'S ELIGIBILITY & SUBMISSION	5
3.	TERMS & CONDITIONS	6
4.	GENERAL TERMS & CONDITIONS	8
4.	TENDERER'S PROFILE (ANNEX-I)	10
5.	FINANCIAL/ COMMERCIAL BID (ANNEX-II)	11-12
6.	TECHNICAL SPECIFICATION (ANNEX-III)	13-19



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TENDER INVITATION

SEALED TENDER/QUOTATION IS BEING INVITED FOR SUPPLY, INSTALLATION & COMMISSIONING OF SOLAR BASED DATA PROCESSOR MILK COLLECTION UNIT

The Jharkhand State Cooperative Milk Producers' Federation Ltd. (JMF), registered under Jharkhand Co-operative Societies Act, 1935 is engaged in milk procurement, processing and marketing activities of item milk and milk products in the state of Jharkhand and is popularly known for its brand 'Medha'. Under an MoU, the Federation is being run & managed by the National Dairy Development Board (NDDB).

The H.O. is located at Sec-II., H.E.C., Near FTC Campus, Dhurwa, Ranchi – 834004

JMF (Jharkhand State Cooperative Milk Producers' Federation Limited, Ranchi), hereby invites tender (in sealed envelope) under two bid system i.e. technical and financial bids from the manufacturers for the purchase of DPMCU_on F.O.R basis for delivery at its Medha Dairy Plant, Hotwar, Ranchi.

Sl. No.	Name of Item	Req. Qty	Unit	Remarks
1	SUPPLY, INSTALLATION & COMMISSIONING OF SOLAR BASED DATA PROCESSING MILK COLLECTION UNIT	100	SET	The rate quoted must be on F.O.R. basis inclusive of P&F, Insurance, Freight, GST etc for delivery at our Hotwar Dairy Plant, Ranchi – 835217

The bids shall be submitted in two separate envelopes (under one main envelope super-scribing: **TENDER FOR SUPPLY, INSTALLATION & COMMISSIONING OF SOLAR BASED DATA PROCESSING MILK COLLECTION UNIT.**

1. Cost of documents : Nil
2. Tender Start Date : 13 Feb 2021
3. Tender submission End Date & Time : 02 March 2021 at 17.00 hours
4. Address for submission of Tender : **Jharkhand State Cooperative Milk Producers' Federation Ltd**
Medha Dairy Plant, Beside Birsa Munda Central Jail, Hotwar, Ranchi – 835217, Jharkhand, INDIA.
Ph. No: 7544003404/7360035219/0651-2443055/62
Email: purchase@jmf.coop

All the tenders will be acceptable only in 'Sealed Envelope' on or before the due date. Tenders will be opened on the prescribed date as mentioned above in the presence of the agency or their authorized representative who may like to be present in the office at Medha Dairy Plant, Beside Birsa Munda Central Jail, Hotwar of Jharkhand State Cooperative Milk Producers' Federation Limited, Ranchi.

All tenders in which any of the prescribed conditions are not fulfilled or which have been vitiated by errors in calculations, totaling, or other discrepancies or which contain over writing in figures or words or corrections not initialed and dated will be liable to rejection.



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TENDER SUBMISSION:

SEALED-TENDERS are invited for Supply, Installation & Commissioning of **SOLAR BASED DATA PROCESSING MILK COLLECTION UNIT** in single stage two cover system i.e., Pre-Qualification/Technical Bid (Technical Envelope) and Financial Bid (Commercial Envelope) as below:

Envelope 1: Technical Bid

The bidder should submit relevant documents, eligibility criteria, technical details as required in enclosed **Annex-I** and **Annex-III** in the Technical Bid.

Envelope 2: Commercial Bid

The bidders should quote the prices in Indian Rupees in price bid format in the Financial /Commercial Bid Format enclosed as **Annex-II** as per technical parameters/ specifications enclosed as **Annex-III**

Under this process, the Eligibility and qualification of the Applicant/ Agency will be first examined based on the detail submitted under first cover (Technical Bid) with respect to eligibility criteria and specifications prescribed in this tender document. The Price Bid under the second cover shall be opened for only those Applicants whose technical Applications are responsive to eligibility and qualifications requirements as per Tender document.

Requirement details:

Sl. No.	Name of Item	Req. Qty	Unit	Delivery Period	Remarks
1	Supply, Installation & Commissioning of Solar Based Data Processor Milk Collection Unit	100	Set	100% Supply within 60 days from the date of Purchase Order	

ELIGIBILITY AND QUALIFICATION REQUIREMENTS:

The bidders must meet the following minimum qualifying criteria:

- 1.1. The Bidder must be in the business of this type for the last 3 years
- 1.2. The manufacturer should have manufactured, supplied and successfully commissioned at least 500nos of DPMCU in each financial year from 2017-18, 2018-19, 2019-20.
- 1.3 The manufacturer should have supplied and successfully commissioned at least 500 units of DPMCU against a single order to state milk federations or reputed organizations
- 1.4. The manufacturer should furnish a certificate regarding manufacturing of DPMCU / milk analyzer at his own works.
- 1.5. Bidder must be registered under GST Act.
- 1.6 The manufacturer should have valid ISO certification.
- 1.7 The DPMCU should confirm to the quality standard as specified under BIS / ISI or empaneled under NDDB.
- 1.8 Certificate from clients with detailed contact address and landline / cell no to establish the supply as stated above.
- 1.9 Preference shall be given to the manufacture who are empaneled under NDDB.
- 1.10. Bidder/Manufacturing/Supplier unit who has been blacklisted either by the Tender inviting authority or by any state Govt. or Central Govt. organization is not eligible to participate in the tender for that item during the period of blacklisting.

The bidder must submit a document copy of the above eligibility criteria along with the tender document. JMF reserves the right to verify/seek confirmation of all original documentary evidence submitted by Bidder. In case any information furnished by the bidder is found to be false/incorrect at any stage, the bid shall be summarily rejected and no correspondence on the same shall be entertained.



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TERMS AND CONDITIONS:

1.0 Submission of Tender/Bid in Sealed Envelope

Envelope 1: (Cover "A")

- 1.1. **Technical Bid:** - Under technical bid, the Tenderer/ bidder interested, shall fill its complete profile in the enclosed format **Annexure – I – 'Tenderers' Profile'** and shall provide/ submit all such documents as requested/ required.
- 1.2. The items' technical details/parameters/ specifications/ COA must be provided under the technical bid envelope.
- 1.3. Bidders qualifying the technical bid (based on the documents submitted) will be intimated to submit the samples within a stipulated time period before opening of Price bid.

Envelope 2: (Cover "B")

- 1.3. **Commercial Bid:** -Under commercial bid, the price/ rate should be quoted on F.O.R. destination basis inclusive of packing forwarding, GST, insurance & transportation charges etc. in the enclosed format **-Annex-II- 'Commercial Bid'**.
- 1.3 The prices/ rate quoted should have equipment wise (Lactoscan, Stirrer, Data Processor, Weighing scale, Digital Display, Solar Unit etc) and post warranty AMC charges (2 years) breakup
- 1.4. Bid Currencies: -The rate/ price should be quoted in Indian Rupees only.

2.0 Period on Validity of Bids: -

- 2.1. Bids shall remain valid for 120 days after the date of bid opening prescribed by JMF, Ranchi. A bid valid for a shorter period shall be rejected as non-responsive.

3.0 Payment Terms: -

- 3.1. 90% within 30 days from the date of receipt of materials/ services and its acceptance along with the W&M verification certificate for weighing scale supplied and balance 10% after one year from the date satisfactory Commissioning and performance trial. However, this can be released along with 90% payment against submission of a Performance bank guarantee for 10 % value valid for one year from the date of Commissioning.
- 3.2. The payments shall be made through NEFT/RTGS and all payments shall be made in Indian Rupees only.
- 3.3 **Penalty:** Penalty @ 0.5 % of the order value / week shall be imposed for delay in execution beyond the time frame.

4.0 Registration of Goods:

- 4.1. If require under the Applicable Law, Goods supplied under the contract shall be registered for use in India.

5.0 Patent Rights:



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- 5.1 The supplier shall indemnify the Purchaser against all third party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.
- 5.2 The supplier shall be providing all the necessary input/output strings/ technical details/ details of encryption algorithms for all the equipment supplied in case of integration is required with any other software.
- 5.3 It shall be the sole responsibility of the supplier for integration of the software with the existing software of JMF.

6.0 Inspections and Tests:

- 6.1 Stage-wise inspection and pre dispatch inspection (to check compliance to technical specification defined in Technical specification) may be carried out by the Purchaser or an agency appointed and paid by Purchaser for this purpose. Goods shall be dispatched only after receipt of satisfactory inspection report and communication to this effect by the End Implementing Agency/Inspection Agency.

7.0 Packing:

- 7.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Purchase Order.

8.0 Delivery Time:

- 8.1 The items shall be supplied within 60 days from the date of acceptance of the order and details given in the Requirement Details under the Eligibility Section.
- 8.2 It is mandatory on the part of the bidder to install / commission the DPMCU and take successful trials with the existing infrastructure within 30 days from the date of supply.

9.0 Earnest Money:

- 9.1 The bidder shall pay Bid Security (EMD) of Rs 1,25,000/- (Rupees One lakh twenty-five thousand only) along with the technical bid by Demand Draft in favor of "JHARKHAND STATE COOPERATIVE MILK PRODUCERS' FEDERATION LTD" drawn on any Bank and payable at RANCHI. Bids received without Earnest Money deposit (EMD) shall stand rejected and thus shall not be considered for evaluation etc at any stage.
- 9.2 The bid security (EMD) without interest shall be returned to the unsuccessful bidders after finalization of contract.
- 9.3 The EMD deposited by successful agency will be adjusted towards Security deposit as demanded above. If the successful bidder fails to furnish the difference amount between Security Deposit and EMD within 30 (Thirty) days after the issue of Letter of Award of Work, his bid security (EMD) shall be forfeited unless time extension has been granted by "PURCHASER".
- 9.4 The EMD shall be forfeited if successful bidder fails to undertake the work or fails to comply with any of the terms and conditions of the contract.



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GENERAL TERMS AND CONDITIONS

1. The rate should be on the basis of F.O.R. our destination as mentioned in tender notice. The element of Goods & Service Tax, freight/ P&F/ Octroi, discount or any should be mentioned clearly stated, failing which it will be presumed that these elements are included in the rates quoted for. Breakup of the price quoted should be given.
2. The rate quoted and accepted will be binding on the tenderer for a period of one year from the date of placement of purchase order and on no account any increase in the price will be entertained till the completion of this tender period.
3. In case of sub -standard quality, materials shall be rejected & payment for the same shall not be released.
4. In case of DPMCU, it is mandatory on the part of the manufacturer / authorized representative to demonstrate the set-in presence of tender committee prior to opening of commercial bid under advance intimation.
5. The eligibility criteria mentioned in the document refers to the original manufacturer only.
6. It is mandatory on the part of the manufacturer to have a service center in the state of Jharkhand. The detailed contact address with land line / cell number should be provided along with the tender document.
7. The set should be covered under 3 years warranty/guarantee period from the date of successful commissioning.
8. It shall be the responsibility of the supplier for getting necessary verification / re-verification of and stamping of weighing scales supplied as per the statutory compliance from W&M offices in various districts of Jharkhand for the warranty as well as post warranty AMC duration.
9. It is mandatory on the part of bidder to quote for all the item as mentioned in the BOQ falling which the offer shall not be consider.
10. Calibration report from Electronics & Quality Development center, Govt. of India should be furnished.
11. In Case BIS certification/ proof of supplying DPMCU's under NDP project of NDDDB/ affiliation of supplier with NDDDB is not produced by the tenderer the bid shall be rejected.
12. The goods will be properly packed before dispatch. All losses in transit due to improper / poor packing will be borne by the supplier.
13. The Jharkhand Milk Federation also reserves the option to go in for the purchase of material at the risk and cost of the successful tenderers, if the party fails to give supplies as per our specifications and schedule. The extra amount if any, in doing so will be recoverable from the defaulter.
14. No tenderer shall be allowed at any time on any ground whatsoever to claim revision of or modification in the rate quoted by him. Clerical error / typographical error, etc. committed by the tenderers in the tender forms shall not be considered after opening of tenders.
15. In case of any dispute, arising out of the contract, the same will be referred to sole arbitration of M.D., Jharkhand State Cooperative Milk Producers' Federation Limited or his authorized representative whose decision in the matter will be final and binding on both the parties. For all legal matters & dispute Ranchi court shall be our jurisdiction.
16. Participation in this tender is invited from the manufacturer. When any item is required to be ISI marked, the manufactures/Suppliers along with their offer should attach photocopy of the required certificate.
17. If any information or documents furnished by the tenderer with the tender papers are found to be misleading or incorrect at any stage the tender of the relevant items in the approved list shall be cancelled and steps will be taken to blacklist the said firm.



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18. If any supplier has any genuine problem beyond his control for arranging the supplies as per our schedule, he will have to get the extension in delivery schedule well in time, failing which schedule given to him in original will be final. Request for extension in delivery schedule after expiry of schedule time and supply will not be entertained.
19. In case of non-supply of the material or any act of commission or omission of a supplier, the Jharkhand Milk Federation may cancel the tender & forfeit the earnest money of the party. In case of Major commission/omission, the party may be debarred/ black listed.
20. Even after inspection, if any defective material is observed during usage, the same shall stand rejected. It will not be obligatory to accept the lowest tender and the JMF reserves the right to accept/reject/scrap any or all of the tenders without assigning any reasons.
21. The suppliers should be capable to supply the entire requirement. However, JMF reserves the right to engage more than one supplier for critical item & for item required in large quantity.

Managing Director
Jharkhand State Coop Milk
Producers' Federation Ltd



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Tenderer's Profile – ANNEX- I

No	Details			
1	Name of Vendor/ Tenderer			
2	Address of Registered Office			
3	Address of Factory/ Works			
4	Name of Contact Person			
5	Contact Nos.			
6	Type of Firm: Ltd Co/ Pvt. Ltd. / Partnership/ Proprietor			
7	Nature of Firm: Manufacturer/ Traders / Autho. Dist. / Dealer			
8	Year of Establishment			
9	Name of Product, you Deal	Please, Specify in separate sheet (As per below Format)		
		S. No	Item Description (Shortly)	Make/Brand
10	G.S.T. No & Reg. Date			
11	PAN No & Date			
12	Turn Over Of last 3 Year (Rs.)	1.	2.	3.
13	If You have maintained any quality standard (Pl. Specify)			
14	Name of Clients (If required, Pl. Specify in separate sheet)	1.	2.	3.
15	Min. Lead Time Required (Days)			
16	Bank Details	Name of Bank : Branch Address: Account No. : IFSC Code :		
17	Documents to Be Attached	1. Copy of Registration + PAN Copy + GST Regn. 2. ISO Certificates 3. Autho. Dealership 4. Fin. Statements 5. Product Brochures 6. Copy of PO's (Min.5)		

Recommendation:

Seal & Sign. Of Vendor



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ANNEXURE-II (Financial Bid Format)

Dated: ___/___/2021

FINANCIAL BID

1	2	3	4						5	6	7	8
Sl. No.	Particulars	Qty	Unit Price						Total Unit Price [a+b+c+d+e+f]	Total Price item for evaluation purpose [3x5]	Name of manufacturer (if items are not manufactured by self)	Remarks
			[a]	[b]	[c]	[d]	[e]	[f]				
			Ex-factory price	Inland transp., insurance, & other local costs incidental to delivery	After Sales Service (post warranty for 2 years)	Training	GST on supply	GST on after sales/ services/ AMC charges				
A. SPV Based Data Processing Unit -100 Units												
1	Milk Analyzer											
2	Electronics Weigh Scale 200kg											
3	Display Unit											
4	Ultrasonic Stirrer3											
5	SPV Power unit											
6	Any other											

(In Words) Rupees _____)



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Warranty/Guarantee: The Bidder should warrant that the goods supplied are new, unused, of the most recent or current models. The Bidder further warrants that the Goods supplied under this Contract shall have no defect arising from design, materials, or workmanship.

The **warranty/ guarantee is for** _____ **months** after the Goods have been delivered at site, installed and accepted by the Purchaser.

Thanking you,

Name of Tenderer: _____

Name of Contact Person: _____

Post / Designation: _____

Yours faithfully,
Signature & Stamp of the Supplier/ Bidder



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ANNEXURE –III Technical Specification

DPMCU Function (functional requirement):

- 1.1 The unit is suitable for instant weighing of milk, measuring FAT & SNF content, calculating. The amount payable to the member based on FAT, SNF and weight, printing the amount calculated thereof with member identification details. This unit is also used for maintaining the complete record of the collection center together with the details of all transaction of the village co-operative society.
- 1.2 The Unit should be able to measure milk component viz. fat from 0.5% to 12% & SNF from 6% to 12% and able to weigh milk upto 200kg per batch at a time. This should process approximately 70 samples of milk per hour.

2.0 Design & Other Requirements:

2.1 Operating Environment:

All the components of the DPMCU 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 skilled persons and not conversant in using electronic equipment.

- Power supply : 160to 260±10% Volts (AC); 12 V (DC)
: 50 Hz ±3%
- Ambient temperature : 5-50° C
- Relative Humidity : 50% to 95%

2.2 Operational Provisions:

- 2.2.1 Warranty: All the components included in the DPMCU shall be warranted for 3 years' comprehensive warranty against manufacturing defects. Burnt and broken items are not covered.
- 2.2.2 Annual Maintenance Service: Annual Maintenance services for 2 years shall be provided after the warranty period of 3 years. Placement of technician at field level for repair and maintenance shall be as under. Burnt & broken items are not covered under AMC.

Weight & measures certification of the weighing scales during the warrantee period as well as post AMC period of 2 years, shall be supplier's responsibility.

Milk collection Centre should arrange to send Milk Analyzer for servicing at the nearest BMCU Centre/Chilling Centre. In case large area/farthest distance, the supplier should provide servicing at site.

During warranty period of 3 years and Annual Maintenance Service period of 2 years, the posting of the technician will be as under:

DPMCU installed (nos)<30 to be attend within 48 hours

DPMCU installed (nos) >30 and upto 50-posting of one technician

Thereafter on technician per addition of 50 DPMCU

2.2.3 Training-

- Comprehensive training for 1 day in class room.
- Hands-on training for 3 shift of milk collection on all operational aspect of the milk analyser and other DPMCU components to DCS staff and other officers of the EIA.
- Between 1st & 2nd month of installation refresher training in group shall be imparted at a nodal location.



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The training space, loading, boarding etc all other expenses will be born and arrange by EIA.

2.2.4 Operational & Cleaning SOPs- provide laminated wall chart indicating important steps involved in operation & cleaning of the Milk Analyser for displaying in DCS.

3.0 Preferred Configuration of DPMCU by users:

The user EIAs depending on the requirement of dairy cooperative societies may choose any one of the following of DPMCU:

Particulars	Configuration II
Components & No	DC operated with SPV
4.0 DPU	Yes
6.0 Milk Analyser	Yes
7.0 Electronics Weigh Scale 200kg	Yes
8.0 Display Unit	Yes
9.0 UPS	No
10.0 Ultrasonic Stirrer	Yes
11.0 SPV Power unit	Yes
12.0 Earthing	No
13.0 Commissioning, Training	Yes

The user EIAs should select any one of the configurations given above and mention their preference in the RFQ. The bidders shall be required to quote only for the Configuration identified in the RFQ.

TECHNICAL SPECIFICATION OF DPMCUS		
4.0 DATA PROCESSOR UNIT		
Sl. No.	Particulars	Stated Specification
4.1	Operational requirement	Provision of import of producer master, arte chart data from dairy central server offline through pen-drive (USB/Serial/Smart card). Based on the requirement, EIA may opt for online provision for the same with specific request to the supplier in RFQ/IFB itself).
		To accept data from electronic weighing machine, milk analyser after entering the milk producer code number manually.
		Data transfer from DPU through pen drive (USB/Serial) to other computer through a customised utility software.
		Producer slip in English with Configuration II
		Shift end Summary on 40 Column formats in English with Configuration II.
		Dispatch Slip, Local sale, payment registers & members listing on 40 column formats in English with configuration II.
		Customised reports as per EIAs requirement with possible inputs.
		Entering of milk rate chart by keyboard or pen drive (USB/Serial)



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		Two sets of rate charts (Buf. & Cow both), one for current & other as "effective from date".
		Rate Chart type to support –Fat & SNF
		Data back up through smart card or through data logger on external SD card or through removable internal SD card.
		Data of producer to be stored through key board or through smart card or serial pen drive
		Able to catch edit history with milk collection audit trail.
		Input services data entry and storage
		To develop, if any additional report required by purchaser
4.2	Technology	Micro controller based
4.3	Display	LCD 4 line/20 Character or Higher
4.4	Memory	2 GB SD card, 14,60,000 records, 2 years data storage for 1000 members.
4.5	RS-232 Interface	For Milk analyser, electronics weigh scale, remote display unit, & Pen Drive.
4.6	Environment	5-50 Deg C, 85% RH, village Dusty Environment, Housing made of SS304.
4.8	Power Supply	230V AC, 50 Hz; 12V DC Input
4.9	Key Board	4x4 membrane/Matrix type and PC Keyboard
4.10	Real Time Clock	Inbuilt
		Power cord 1.5M with plug top-01 no
4.11	Consumables & Accessories with each DPU	Data lead 2M for weigh scale with RS-232 connector at both ends.
		Data lead 2M for Remote Display Unit with RS-232 connector at both ends
		Data lead 2M for Milk Analyser with RS-232 connector at both ends.
		Pen Drive (Serial/USB)-04 Nos

5.0 SPECIFICATION FOR MILK ANALYSER

S. No.	Particulars	For Configuration II
6.1	Functional Requirement	To test 7 display fat, SNF & added water of Sample Milk
6.2	Type	Ultrasonic principle-based milk analyser for testing fat SNF & added Water.
		Measuring parameters
		Fat-0.5% to 12% with accuracy $\pm 0.1\%$, with Resolution: 0.01% and Repeatability: $\pm 0.05\%$
		SNF-6% to 12% with accuracy ± 0.2 , with Resolution: 0.01% and Repeatability: $\pm 0.5\%$



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		Added Water- 0% to 60% with accuracy $\pm 5\%$ with Resolution: 1% and Repeatability 0.5%
		Measuring cycle-40 Sec per Sample
		Average Testing Speed- 70 samples/hr
6.3	Operational Abilities	Mode selection for type of milk- Cow, buffalo, Mixed/Single curve with Cleaning, Calibration System error list etc.
6.4	Type	Ultrasonic milk Analyser for testing Fat, SNF & Added Water
	MoC for enclosure	AISI 304, 0.75mm thick minimum
6.5	Loose Accessories	Holding bottom tray for spillage-01 no. RS 232 Serial Cable- 01 no. A C Power Cable with Plug Top- 01 no. Measuring mugs- 02 nos. Daily Cleaning Solution- No. of Bottle 3 (Quantity minimum 200ml or equivalent). Weekly Cleaning Solution- No. of Bottle 2 (Quantity minimum 200ml or equivalent). Or Monthly cleaning solution- No. of Bottle 1 (Quantity minimum 200ml or Equivalent).
6.6	Manual	Operating manual each in English & preferably Local language per DPMCU supply.

6.0 Specification for Electronic Weigh Scales

Sl. No.	Particulars	Specification
7.1	Functional Requirement	To Electronically weigh & digital display of milk quality in litre in a container
7.2	Capacity	200Kg
7.3	Least Count	200gm
7.4	Weight Accuracy	200gm as per Standards of W & M Rules 1987 medium accuracy Class III
7.5	Certification & Stamping	Duly certified and stamped by W&M Dept. and confirming to IS:9281(pt 1&2) 1979, IS:9281:1981 and IS:9281(Pt:4) 1983 as amended upto date
7.6	Display resolution	1/10,000 (accuracy class III)
7.7	Load Cell	Single, IP 67, Grade SS of Certified and approved make
7.8	Over load & Shock Load protection	300% to take impact of loading with audio (beep) visual indication
7.9	Platform Size	600mm x 600mm
7.10	Platform Material	AISI SS 304, 1.6mm Thick, 150 grit top plate
7.11	Platform under frame material/ Design	Cold rolled steel box of adequate size. Hot dip galvanised after fabrication
7.12	Indication in display EWS unit	Quantity-7 Segment RED LED, 6 digits, minimum 13mm height, display for mode of operation-zero, tare, kg/litre, by default litre
7.13	Display Mounting Unit	Pole mounted type with sturdy base and SS 304, 38mm dia, Pipe, 1.2m high
		SS Body IP55, tactile switch keys with feedback response, auto calibration & auto span with drift correction



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		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.
		Password protection at user end.
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, 6V capacity minimum for 12 hrs
7.17	Model Approval Certificate	Manufacturer to have model approval certificate of Govt of India (Weight & measure Unit)
7.18	Stamping at site	Supplier to arrange stamping of each scale at site4 from local Weights & Measures Inspector before Installation.

7.0 Specification for Remote Display Unit (RDU)

S. No.	Particulars	Specification
8.1	Functional Requirement	To display pourer members milk collected & milk testing and other selected parameters
8.2	Type	Wall mounted Type
8.3	Display Parameters	i. Member's Code-3 Digit; ii. Cattle type-1 Character iii. Milk Weight-5 Digits iv. Fat% 4 Digits v. SNF%-4 Digits vi. Rate in Rs.- 5 Digits vii. Amount in Rs.-6 Digits
8.4	Interface	RS-232/USB Host
8.5	Display Type	7 bright Segments, Red Led, 25mm
8.6	Labels for Display	Screen Printed
8.7	Environment	Dusty, Humid, preferably housing to be with Rust proof powder coated metallic.
8.8	Connecting Cables	Minimum 5m Power cable with plug top, Minimum 5m data cable with connector at both ends

8.0 Ultrasonic Milk Sample Stirrer

S. No.	Particulars	Specification
9.1	Functional Requirement	To remove air from fresh milk sample by vibration created in the water bath before testing of milk.
9.2	Type	Table Top, Ultrasonic Stirrer
9.3	Stirrer for Ultrasonic Stirrer	SS ball type
9.4	Timer	1-99 (Max.) Sec Selectable
9.5	Environment	Suitable for dusty/humid village environment, operating temperature-5 to 50 Degree C
9.6	Connecting Cables	Minimum 1.5m Power Cable with Plug Top



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9.7	Complete Ready to Use	Item complete in all respect with required electric/electronic parts ready for use at site
9.8	Operating Voltage	230 volts \pm 10, AC, 50 Hz and 12 Volts DC
9.9	Power Consumption	As per design

9.0 SPV Charger, Panel & Battery		
S. No.	Particulars	Specification
10.1	Functional Requirement	<ul style="list-style-type: none">Solar Photovoltaic (SPV) Based Power Unit system for Data processor milk collection units (DPMCU) is required to install in rural areas at Milk Pooling Points. This Unit is required in View of insufficient grid power or at times no power from grid.SPV Power backup system required to give 06 shifts or 3 days autonomy in case of no sun shine or power outages.The system should be hybrid to have SPV and Grid Charging both. The preferred charging should be on SPV and secondary charging should be by GRID.
10.2	Design Load: The SPV Unit should be designed for load of each component of DPMCU.	Solar DPMCU (Configuration II) DPU-10W EWS 200kg-10W Milk Analyser-24 W Stirrer-30W Display Unit-15W LED/CFL Light-10W Loads indicated above are indicative. The bidder should calculate the capacity of SPV unit based on actual ratings of the components included in DPMCU.
10.3	SPV Panel	Adequate Min. 75Wp; 12 Volts with galvanized frame mounting arrangements. SPV Panels should have IEC Certification in accordance with IEC 61215-2 for Design Qualification and type Approval, IEC 61730-1 and IEC 61730-2 for standards for safety and IEC 61701 for Standards for Salt Mist Corrosion testing
10.4	Electronic Controller Unit	To handle the charging current upto 10 Amp Suitable DC sockets for the respective components of DPMCU Connecting cables included for the respective items of DPMCU Battery Charging Load indication. Battery health/Charging graphic equalizer and load graphic equalizer. Hybrid i.e., SPV and GRID Preference to SPV Charging
10.5	Battery (with Steel rack)	Type: LMS Industrial Tubular Min, rating 12V 75 Ah battery of suitable capacity No. 1
10.6	Battery Charging	SPV Charging: upto 7.5 Amp Grid Charging: 90-270 V AC in case SPV not available
10.7	Protections	Short Circuit & Overload on both Battery and Load. Reverse battery terminal Over Charge Deep Discharge



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		Input Surge protection by line filter Incase of failure of charging cum power unit, bypass to be provided for flow of DC supply directly from battery to the DPMCU components. Thermal shutdown. Reverse current from battery to SPV
10.8	Operating Environment	Temp 5-50 Deg. C; RH-90% non-condensing, Dusty Environment