



**ERNAKULAM REGIONAL CO-OPERATIVE MILK PRODUCERS' UNION LTD.
P.B.NO.2212, EDAPPALLY, KOCHI – 682 024
PHONE: 0484 – 2541193**

No. EU/PC/774/NPDD/LAB/2020

**TENDER FOR THE SUPPLY OF GLASSWARES FOR STATE CENTRAL
LABORATORY, EDAPPALLY**

ERNAKULAM REGIONAL CO-OPERATIVE MILKPRODUCERS' UNION LTD.
P.B. NO. 2212, EDAPPALLY, KOCHI – 24
Phone-0484-2541193, 2556863

No. EU/PC/774/NPDD/LAB/2020/

20.08.2020

TECHNICAL CUM COMMERCIAL TENDER NOTIFICATION

The Managing Director, Ernakulam Regional Co-operative Milk Producers' Union Ltd (ERCMPU) invites sealed technical cum commercial tender for the Supply of glasswares as per specification mentioned in the attachment for State Central Laboratory at Edappally.

Interested and eligible bidders may download the tender form from our web site www.ercmpu.in. The cost of tender form should be submitted as Demand Draft along with EMD in favour of "MANAGING DIRECTOR, ERCMPU LTD" payable at Edappally. Details are given hereunder.

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|---|---|--------------------------------------|
| 1. Reference No | : | EU/PC/774/NPDD/LAB/2020 |
| 2. Estimated amount | : | Rs. 4,00,000/- |
| 3. Price of bidding document (non-refundable fee) | : | Rs. 500/- (incl. tax) |
| 4. EMD | : | Rs. 4000/- |
| 5. Last Date /Time for submission | : | 18.09.2020 – 2:00 P.M. |
| 6. Date /Time of opening Technical Tender | : | 18.09.2020 – 2:45 P.M |
| 7. Place of opening Tender | : | Head Office, Edappally. |
| 8. Bid validity | : | 90 days from the date of bid opening |
- The bid shall be submitted in two cover system consisting of technical bid and price bid. The price bid of those who qualify in the technical bid only will be opened.
 - All bids must be accompanied by a Bid security (Earnest Money) as specified above and must be delivered to the office of ERCMPU at Edappally on or before the last date and time of submission of bids as given above.

MANAGING DIRECTOR

Copy to: Dairy Manager, EKM/TCR/KTYM/PD/KTPNA
Manager (QC), Manager (Engg.) Manager (P&I), Asst. Manager (P&I)
Moovattupuzha, Adimali, Chalakkudy, Manager (Engg), Manager (F&A),
all Department Heads, All Notice Boards, ERCMPU official website, Mf/Oc

SPECIAL TERMS AND CONDITIONS

- 1 Downloading of tender document:** Tender document will be available for download on www.ercmpu.in. However, tender document fee should be submitted as Demand Draft along with EMD in favour of "Managing Director, ERCMPU Ltd" payable at Edappally.
 - 2 Publishing of Corrigendum:** All corrigenda shall be published on www.ercmpu.in. and shall not be available elsewhere.
 - 3 Bid submission:** Bidders have to submit their bids along with supporting documents to support their eligibility in envelope duly sealed and super scribed as "Tender for the supply of glasswares" in which the technical bid and commercial bid/price bid shall be in separate sealed covers in which super scribed as "Technical bid" and "Price Bid". The Demand Draft for EMD and Tender document fee to be enclosed in the Technical bid cover.
 - 4 Opening of Technical Bid and Bidder short-listing:** The technical bids will be opened, evaluated and shortlisted as per the eligibility and technical qualifications. All documents in support of technical qualifications shall be submitted along with the technical bid. Failure to submit the documents will attract disqualification. Bids shortlisted by this process will be taken up for opening the financial bid.
 - 5 Opening of Financial Bids:** Bids of the qualified bidder's shall only be considered for opening and evaluation of the financial bid on the date and time mentioned in Tender document.
- 5.1 The Bidder may quote their reasonable/lowest rate. The rate quoted shall clearly indicate the Basic price, Excise duty, GST (%), Freight, Insurance, Entry Tax (%), P&F, Erection charges and any other statutory/incidentals etc. in complete. No other extra payments will be made. The rate quoted shall be valid for a period of 3 months from the date of opening.
 - 5.2 The bidder should also submit the necessary brochures and this tender document with the offer after signing at the bottom of each page as a token of acceptance of the terms and conditions and specification.
 - 5.3 Delivery Details: The equipment shall be delivered at the designated site of ERCMPU (products dairy Lab, Edappally). The supply shall be completed within 30 days on receipt of the order.
 - 5.4 The tender document can be downloaded from our website www.ercmpu.in.
 - 5.5 The Bidder should have registration under GST. The registration number is to be indicated in the quotation.
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- 5.6 The filled and super scribed quotation in the prescribed price quote format should be received in this office on or before 18.09.2020 at 2.00 PM and the same will be opened at 2.45 PM.
- 5.7 Managing Director reserves the right to accept or reject any or all the quotations without assigning any reason.
- 5.8 The prices finalized are fixed during the validity of contract period.
- 5.9 Taking in to consideration, the Technical Competence and the quoted price for the goods of specified quality, the tender shall be evaluated.
- 5.10 In case of any disagreement or dispute arising between ERCMPU & the supplier, the decision of Managing Director, ERCMPU shall be final.
- 5.11 The details can be had from our office during office hours.
- 5.12 The EMD shall be in the form of:
- By Demand Draft (valid for a period of 3 months) from a Nationalized/scheduled Bank drawn in favour of The Managing Director, ERCMPU, payable at Edappally, Kochi.
 - Any quotation without EMD shall be treated as non-responsive & shall be liable for rejection.
 - Un-successful tenderer's EMD shall be discharged / refunded as promptly as possible as but not later than 60 days after expiry of tender validity. The EMD shall not carry any interest.
 - The EMD of successful tenderer shall be discharged only after the supply of item.

ELIGIBILITY CRITERIA

- a) The bidder should be in business as Supplier of quality laboratory equipments in university Dept., Research Laboratories, FSSAI referral/reference Laboratories/ State Co-operatives laboratories or Public sector labs for a minimum period of five years at the time of bid opening in the same name.
- b) The bidder shall have supplied equipments of similar nature and value of the estimated cost during the last five years.

PAYMENT TERMS

100 % payment will be released within 20 days on acceptance of quality norms specified to the lab wares by the quality dept. of the union. Suppliers should ensure the material shall conform to the specification attached.

WARRANTY

You shall guarantee to repair/ replace the item supplied or part thereof if found defective due to bad designing, workmanship or substandard material/ breakage without any extra cost within a period of 3 months from the date of installation.

The entire expenditure towards replacement/ repair shall be borne by you.

QUANTITY TO BE SUPPLIED AND SPECIFICATION

Sl. No.	Name of the item	Specification	Size	Quantity required
1.	Beaker	Borosilicate glass with a minimum content in silica of 80% as defined in IS 3585 STD	100 ml,250ml, 100ml ,1000 ml	6 nos. each
2.	Burette	Screw type needle valve PTFE stop cock, Class a , premium line	50 ml	4 nos. each
3.	Automatic burette with reservoir jar	Automatic table burette class A, Premium line	1 Ltr.	2 nos.
4.	Richardson bulb for automatic burette	Rubber bulb with jute yarn protection with rubber tube attachment	Standard size	12 nos.
5.	Burette	glass burette with straight stop cock, class A	50 ml	4 nos.
6.	Conical flask with stoppers	Borosilicate glass with a minimum content in silica of 80% as defined in IS 3585 STD	100 ml,200 ml,500 ml	4 nos. each
7.	Desiccators	Glass, knobbed lid basic line desiccator plate porcelain premium line	Large	2 nos.
8.	desiccator - Tarson type	Tarson type with knobbed lid	Large	2 nos.
9.	Digestion flask	Standard ground mouth, borosilicate ,Conforms to IS 3585 STD	300 ML, 500 ml	3 Nos. each
10.	Erlenmeyer flask	Borosilicate glass with a minimum content in silica of 80% as defined in IS 3585 STD, narrow neck	100 ml,250 ml,500 ml,1000 ml	6 nos. each
11.	Filter paper What man (no.1)	Grade 1 filter paper is the most widely used filter paper for routine applications with medium retention and flow rate. It has particle retention of 11 μ m at 98% efficiency. It covers a	What man (no.1)	1 Box

		wide range of laboratory applications and is frequently used for clarifying liquids		
12.	what man filter paper no.41	The fastest ashless filter paper, recommended for analytical procedures involving coarse particles or gelatinous precipitates (e.g., iron or aluminum hydroxides). 20mewpore size fast filter paper.	what man filter paper no.41	1 Box
13.	what man filter paper no. 42	Grade 42 Ashless: 2.5 μm A world standard for critical gravimetric analysis with the finest particle retention of all Whatman cellulose filter papers	what man filter paper no.42	1 Box
14.	Funnels	Borosilicate/Corning/Duran glass	short stem	6 no's
15.	Funnels	Borosilicate/Corning/Duran glass	long stem	6 no's
16.	Separating funnel	Borosilicate/Corning/Duran glass .conical with PTFE stop cock and plastic stopper	500 ml size	2 nos.
17.	Glass pipettes (volumetric)	Borosilicate glass CLASS A with one mark with certificate of conformity	Volume 10 ml	6 nos.
		Borosilicate glass CLASS A with one mark with certificate of conformity.Shall Comply bis 1223:2001 section 3.Range 10.75+/- 0.03 ml. dimensions shall meet fig .8 of the std for milk piupette. Refer TABLE 3 of the std for detailed dimensions. delivery time 7+/-2 seconds.	Volume 10.75ml	12 nos.
		Borosilicate glass CLASS A with one mark with certificate of conformity.	Volume 25 ml	4 nos.
18.	Litmus paper	4.8 mm roll H-indicator paper Litmus paper blue range pH 4 to 9	p H range 4-9	1 box
19.	Glass pipettes (Graduated)	Borosilicate glass, graduated type, Zero at the top. With batch certificate.	Volume 10 ml	4 nos.
		Borosilicate glass, graduated type, Zero at the top. with batch certificate.	Volume 11 ml	6 nos.
		Borosilicate glass, graduated type, Zero at the top. with batch certificate.	Volume 5 ml	6 nos.
		Borosilicate glass, graduated type, Zero at the top. with batch certificate. Shall	volume 1 ml	12 nos.

		Comply BIS 1223:2001 sections 3. Range 1 ml+/- 0.05 ml. dimension and design shall meet 1 ml amyl alcohol pipette complying to (fig 9)of the std. Refer TABLE 3 of the std for detailed dimensions. Delivery time 3 sec.		
20.	Measuring cylinders	Class B Hexagonal base , Borosilicate glass ,accuracy 10 ml +/- 0.2 ml , 25 ml +/-0.5 ml	10 ml,25 ml	6 nos. each
21.	Measuring cylinders	class A Hexagonal base , Borosilicate glass Accuracy+/-1 ml	50 ml,100 ml	6
22.	Measuring cylinders	class A Hexagonal base , Borosilicate glass Accuracy+/-2 ml	250 ml ,500 ml,1000 ml	6
23.	Syringe filter unit	25 mm ,pore size-0.2mm and 0.45 mm, filter area 4.8cm ² ,P.P Make, Average flow rate Ethanol- 70 ml and 130 ml /minute ,sterile filtration capability@ 4 bar	0.28 and 0.47 ml syringe filters	1000 no each
24.	Silica /alumina dishes	Silica/ alumina dish shall withstand temperature of 1750 degree C. Suitable for muffle furnace operations.	small	6 nos.
25.	Test tubes	Borosilicate Glass ,10 ml marked 15*150 mm size	10 ml	200 nos.
		25 ml with Curved rim borosilicate glass	25 ml	12 nos.
		50 ml Round rim , borosilicate glass	50 ml	12 nos.
26.	Sauxlet apparatus	Borosilicate glass, The complete apparatus includes a Dimorph condenser, extractor and flat bottom flask.	250 ml	1 no.
27.	TLC Chamber	4.2 ltr capacity, Flat surface walls, ground lip of uniform flatness, and beveled inside and outside to avoid sharp edges. Raised ridge midway on the inside ends and bottom of jar. Develop two 20x20cm (77/8x77/8") plates or equivalent simultaneously without rack. TLC Chamber - shall have preferably an internal fluoropolymer resin shoulder to prevent slippage.	27*7.5*26 cm	1 no.
28.	Tripod stand	Cast Iron plate with ZINC plated legs	125 width *200	6 nos.

		125 mm width 200 mm height	mm height size	
29.	Volumetric flask	Volumetric flask class A with individual certificate, Premium Line, made of quality borosilicate glass with glass stopper .Designed according to ISO 1042, DIN 12664 STDS. Each flask shall have its own individual serial number printed on the flask. Calibration certificate shall be provided.	10 ml, 50 ml,100 ml	6 nos.
30.	Volumetric flask	Volumetric flask class A with individual certificate, Premium Line, made of quality borosilicate glass with glass stopper .Designed according to ISO 1042,DIN 12664 STDS. Each flask shall have its own individual serial number printed on the flask. Calibration certificate shall be provided.	250 ml,500 ml,1000ml	9 nos.
31.	Wash bottle	poly propylene or other suitable plastic 500 ml size with dropping tube with cover	500 ml ,plastic	12 nos.
32.	Wire gauze	Ceramic plate with iron wire, ceramic centre.	70/85 mm size	12 nos.
33.	Glass rod	Polished Glass Solid Stirring Rods made from smooth, low-expansion, low-extractable borosilicate glass. They are usually between 10 and 40 centimeters in length and about half a centimeter in diameter	Thick	100 g
34.	Glass rod	Borosilicate/(Pyrex) glass ,Polished slender type glass rod	slender	200 g
35.	China dish	8.2 cm dia. Porcelain ,80-90 ML Capacity, Glossy polished inside	medium	12 nos.
36.	Thermometer	Digital type range: minimum Temperature -10 degree C to max.250 degree C. -Infrared laser digital thermometer, , resolution 0.1°C. Accuracy: 1 °C or ±1%. Answer time 1 s and adjustable emissivity from 0.05 up to 1.00. Must be Handy and easy to operate.	Digital(-10 degree C TO 250 Degree C)	4 nos.

		Provision for calibration required. Power supply: Lithium battery. Warranty 1 year		
37.	Thermometer	Thermometer with coloured liquid 300 MM LENGTH +/-1 DEGREE C accuracy.- 40 degree C to 110 degree C.	Mercury -10 to 110 Degree C	12 nos.
38.	Thermometer	Chemical thermometers filled with alcohol Range -10to +110 degree C. Accuracy+/-1 Degree C.300 MM Length.	Alcohol -10 to 110 Degree C	12 nos.
39.	Sampling bottles	Made of borosilicate glass, fully autoclavable at 140 degree C, gl 80 Thread according to ISO 4796.Blue screw cap and pouring rings in polypropylene	100 ml screw cap	6 nos.
40.	Sampling bottles	Made of borosilicate glass fully autoclavable at 140 degree C, gl 80 Thread according to ISO 4796.Blue screw cap and pouring rings in polypropylene.	250 ml screw cap	6 nos.
41.	Majonnier fat extraction apparatus	Majonnier Glass Extraction Flask with stopper, 25 ml this flask to measure fat content in dairy and other food products. Extraction chamber has a diameter of 35 mm; top opening accepts a #0 stopper.	25 ml size	3 nos.
42.	Sampling bottles-Amber colour	Amber , narrow mouth with P.P /GLASS stopper, borosilicate glass (upper grade)	500 ml	4 nos.
43.	Sampling bottles-Amber colour	Amber , narrow mouth with P.P/GLASS stopper, borosilicate glass (upper grade)	200 ml	4 nos.
44.	sampling bottles -plain	Clear borosilicate glass with P.P /GLASS Stopper	500 ml	6 nos.
45.	sampling bottles -plain	Clear borosilicate glass with P.P /GLASS Stopper	250 ml	6 nos.
46.	Tilt measure	Tilt Measure 1 ML. for Alcohol .Corning Glass Bottle with Nylon Cork No.4	10 ml	24 nos.
47.	Tilt measure	Tilt Measure 10 ML. for Alcohol .Corning Glass Bottle with Nylon Cork No.4	1 ml	24 nos.

48.	Milk butyrometer	Made of borosilicate glass, plain neck or ring neck, closed bulb with a frosted label, without stopper, Milk butyrometer Original Gerber. Shall comply with BIS 1223:2001 section 1 for butyrometer specs.	10.75 ml	60 nos.
49.	Cream butyrometer	Measuring device for the fat determining content in cream, complying to national standards. Made of borosilicate glass, plain neck or ring neck, with closed or open bulb, with a frosted label on the bulb, weighing method for 5 g or volumetric method for 5 ml with respect to the sample/method selected. Shall meet specification for butyrometer BIS 1223:2001 section 1 .(0-70% BUTYRO METER)	0-70%	4 nos.
50.	Ice cream butyro meter	Measuring device for the fat determining content in cream, ice cream as per national standards.Made of borosilicate glass, plain neck or ring neck, with closed or open bulb, with a frosted label on the bulb, weighing method for 5 g or volumetric method for 5 ml with respect to the sample/method selected.Shall meet specification for butyrometer bis 1223:2001 section 1 .(0-20% BUTYRO METER)	0-20%	6 nos.
51.	Butter butyrometer	Made of borosilicate glass, plain neck, with open bulb, with a frosted label on the bulb, weighing method for 5 g for measuring fat content in butter	0-80%	3 nos.
52.	Cheese butyrometer	Measuring device for the fat determining content in cheese and curd according to BS/ IS.	0-40%	2 nos.
53.	Lock stopper	Rubber/steel material,bottom mounting used for dairy/pharma industry.		24 nos.
54.	Rubber cork	Rubber stopper suitable for 15*150		100 nos.

	A1	MM test tubes		
55.	Rubber cork A4	Rubber stopper suitable for 50 ML test tubes		12 nos.
56.	BOD Bottles	Made borosilicate glass (upper grade). Un-numbered. With write-on patch 300 ml size.		6 nos.
57.	Filter membrane for samples	0.28 micron pore size 13 mm PTFE	for syringe filter	
58.	Filter membrane for solvents	0.45 micron a PTFE 47 mm dia PTFE		1000 nos. each
59.	Micro filtration assembly	47 mm filtration apparatus with fritted glass support for routine filtration analysis of corrosive liquids and the removal of particulates from HPLC solvents. support base shall have 40-60 micron porosity glass frit and an integral vacuum connection above drip tip. Funnel, anodized aluminium clamp. 47 mm fritted glass support base and filtration flask with joints 40/35 shall be supplied. Manufactured from low extractable borosilicate glass conforming to ASTM E438 , TYPE 1 CLASS A requirements.		1 no.
60.	Micro pipette variable	Ergonomic design and smooth pushing system to minimize hand and finger tiredness. Minimum body heat transfer to internal parts for high accuracy even during continuous use. Autoclavable tip cone. Each micropipette has to be individually calibrated according to EN-ISO 8655 standard, showing an embossed identifying serial number and delivered with a calibration report. SIZE 100 MEW L ACCURACY 0.5 ML. 500 and 1000 mew l accuracy-0.3 mew l. Warranty 1 year.	1000, 500 , 100 mew l	1 each
61.	Petri dishes disposable	Tarson brand/equivalent 9 cm dia. p.p/polystyrene material. Sterilized	9 cm dia. p.p/polystyrene	500 nos.

		and kept in sealed cover.	material	
62.	Durhams tube	Borosilicate glass internal dia 6 mm, length 3 cm. Fused round bottom for microbiology work.		100 nos.
63.	Diluent and media storage bottles	Screw cap bottle with polypropylene ring, clear Borosilicate glass with graduation. Size 100 ml, and 250 ml	100 ml,250 ml	24 nos.
65.	Spreader loop	Ultra Smooth Surface for Perfect, Gouge Free Streaking, Free of Lubricants, Oils and Electrostatic Charges for a Perfect Droplet .1 mew l capacity.	1mew l	12 nos.
66.	Inoculation loop	loop 1 mew l capacity ..Standard steel / brass holders length 175m wire loop made of twisted wire of platinum ,tungsten/nichrome	1mew l	12 nos.

PRICE QUOTE FORMAT

The Managing Director
 Ernakulam Regional Cooperative Milk Producers Union Ltd,
 Edappally

Sir,

Ref: Tender Notification No. EU/PC/774/NPDD/LAB/2020/ dtd 20.08.2020

With reference, I/We herewith submitting my/our Price Schedule for the item indicated below:-

Sl. No	Item description	Quantity required	Basic Rate in figures to be entered by the bidder (Rs.)	GST in (Rs.)	Freight charges (Loading, unloading & stacking) (Rs.)	Total amount (Rs.)
1.	Beaker	6 nos. each				
2.	Burette	4 nos. each				
3.	Automatic burette with reservoir jar	2 nos.				
4.	Richardson bulb for automatic burette	12 nos.				
5.	Burette	4 nos.				
6.	Conical flask with stoppers	4 nos. each				
7.	Desiccators	2 nos.				
8.	desiccator -Tarson type	2 nos.				
9.	Digestion flask	3 Nos each				
10.	Erlenmeyer flask	6 nos. each				
11.	Filter paper What man	1 Box				

	(no.1)					
12.	what man filter paper no.41	1 Box				
13.	what man filter paper no. 42	1 Box				
14.	Funnels	6 no's				
15.	Funnels	6 no's				
16.	Separating funnel	2 nos.				
17.	Glass pipettes (volumetric)	6 nos.				
		12 nos.				
		4 nos.				
18.	Litmus paper	1 box				
19.	Glass pipettes (Graduated)	4 nos.				
		6 nos.				
		6 nos.				
		12 nos.				
20.	Measuring cylinders	6 nos. each				
21.	Measuring cylinders	6				
22.	Measuring cylinders	6				
23.	syringe filter unit	1000 no each				
24.	Silica /alumina dishes	6 nos.				
25.	Test tubes	200 nos.				
		12 nos.				
		12 nos.				
26.	Sauxlet apparatus	1 no.				
27.	TLC Chamber	1 no.				
28.	Tripod stand	6 nos.				

29.	Volumetric flask	6 nos.				
30.	Volumetric flask	9 nos.				
31.	Wash bottle	12 nos.				
32.	Wire gauze	12 nos.				
33.	Glass rod	100 g				
34.	Glass rod	200 g				
35.	China dish	12 nos.				
36.	Thermometer	4 nos.				
37.	Thermometer	12 nos.				
38.	Thermometer	12 nos.				
39.	Sampling bottles	6 nos.				
40.	Sampling bottles	6 nos.				
41.	Majonnier fat extraction apparatus	3 nos.				
42.	Sampling bottles- Amber colour	4 nos.				
43.	Sampling bottles- Amber colour	4 nos.				
44.	sampling bottles - plain	6 nos.				
45.	sampling bottles - plain	6 nos.				
46.	Tilt measure	24 nos.				
47.	Tilt	24 nos.				

	measure					
48.	Milk butyrometer	60 nos.				
49.	Cream butyrometer	4 nos.				
50.	Ice cream butyrometer	6 nos.				
51.	Butter butyrometer	3 nos.				
52.	Cheese butyrometer	2 nos.				
53.	Lock stopper	24 nos.				
54.	Rubber cork A1	100 nos.				
55.	Rubber cork A4	12 nos.				
56.	BOD Bottles	6 nos.				
57.	Filter membrane for samples					
58.	Filter membrane for solvents	1000 nos. each				
59.	Micro filtration assembly	1 no.				
60.	Micro pipette variable	1 each				
61.	Petri dishes disposable	500 nos.				
62.	Durhams tube	100 nos.				

63.	Diluent and media storage bottles	24 nos.				
65.	Spreader loop	12 nos.				
66.	Inoculation loop	12 nos.				

Total amount Rupees.....

Rate should be valid for 3 months

Work should be completed within 7 days from the date of issue of order.

Name & address of the Bidder

AUTHORISED SIGNATORY

Name & Designation:

Signature

P.S: If necessary, the tenderer can make use of the firm's letterhead to quote the price/s and enclose. However, this format shall be duly completed and signed/sealed.