

Central Instruments Laboratory, CVAS, Mannuthy

Details of revised fee for services rendered through Revolving Fund of Central Instruments Laboratory Services & Training,
College of Veterinary & Animal Sciences, Mannuthy, Thrissur.

Sl. No.	Name of Equipment	Charges (Rs/ per sample)		
		Category I (GST Free)	Category II	Remarks (if changes from the previous rate- reason)
1.	Accelerated solvent extractor (150 mL)	250/-	750/-	No change
2.	Analytical balance	Nil	30/-	No change
3.	Atomic Absorption Spectrophotometer	300/- for standardization and 80/- for subsequent samples (Flame)	600/- for first standardization and 150/- for subsequent samples (Flame)	Due to significant increases in equipment maintenance and AMC expenses, we have updated our AAS testing fees.
4.	Automated fraction collector	50/batch	250/batch	Calibration and maintenance required
5.	Automated mammalian cell counter	400/slide	500/slide	No change
6.	Bio-chemical analyser (Semi-automated)	10/test	50/test	to account for the frequent and specialized maintenance
7.	Biosafety Cabinet Class II	Nil	200/h	No change
8.	CO ₂ Incubator	Nil	250/day	No change
9.	Cold trap	50/batch/h	100/batch/h	No change
10.	Densitometer	20/gel	50/gel	Frequent repair and calibration
11.	Electrophoresis (vertical/horizontal)	100/gel	200/gel	The quoted rate for electrophoresis is based on a service-only model and is applicable only when all necessary consumables are provided by the client.
12.	Electrophoresis2-D	250/-	1000/gel	No change
13.	Fourier Transform Infrared Spectrometer (FTIR)	250/-per sample	500/- per sample	No change
14.	Freeze drier/Lyophilizer, Vacuum concentrator	300/batch/6h;	600/batch/6h	No change
15.	Gamma counter (RIA)	100/-Thyroid hormones, 200/- other hormones, Vit D3- 600/-	100/-Thyroid hormones, 300/- other hormones, Vit D3- 750/-	Due to a significant rise in the procurement costs of specialized radioisotope-labelled kits, we are adjusting our rates for hormone analysis via RIA. Vitamin D3 analysis has transitioned from manual processing to a high-precision Radioimmunoassay (RIA) kit method. While manual methods are more variable, our new kit-based approach offers superior sensitivity and inter-assay reproducibility. Due to the significant cost of these specialized diagnostic kits and the radiolabelled components required, the analysis rate has been adjusted
16.	GC-MS/MS (Separate charges for extraction and clean up depend upon type of sample)	The standardization fee is ₹2,000. For the samples, the pricing is tiered as follows: First 10 samples:	The standardization fee is ₹2,000. For the samples, the pricing is tiered as follows: First 10 samples:	By processing larger batches, we significantly reduce the volume of solvent required for system equilibration, priming, and post-run cleaning cycles. Furthermore, maintaining the instrument in a continuous 'ready' state minimizes the chemical waste associated with

		₹1,000 Next 10 samples (up to 20): ₹750 per sample. Next 30 samples (up to 50): ₹500 per sample. Every sample beyond 50: ₹250 per sample	₹2,000 Next 10 samples (up to 20): ₹1,500 per sample. Next 30 samples (up to 50): ₹1,000 per sample. Every sample beyond 50: ₹500 per sample.	repeated start up sequences, allowing us to pass those operational savings on to the client.
17	Gel documentation unit	20/gel	100/- per gel	To support the continued availability of high-resolution molecular imaging, we are introducing a usage fee for the Gel Documentation Unit. The new charge for the Gel Documentation system accounts for the significant recurring costs of UV transilluminator bulbs and high-sensitivity imaging sensors.
18	Haematology analyser	180/-	200/-	No change
19	High Performance Liquid Chromatograph (Separate charges for extraction and clean up depends upon type of sample)	The standardization fee is ₹2,000. For the samples, the pricing is tiered as follows: First 10 samples: ₹1,000 Next 10 samples (up to 20): ₹750 per sample. Next 30 samples (up to 50): ₹500 per sample. Every sample beyond 50: ₹250 per sample	The standardization fee is ₹2,000. For the samples, the pricing is tiered as follows: First 10 samples: ₹2,000 Next 10 samples (up to 20): ₹1,500 per sample. Next 30 samples (up to 50): ₹1,000 per sample. Every sample beyond 50: ₹500 per sample.	By maintaining continuous high-pressure flow, we significantly reduce the solvent overhead typically lost during system priming and column equilibration. Processing samples in larger batches allows us to maximize mobile phase utility and minimize the 'per-injection' cost of high-purity solvents.
20	Hot air oven	Nil	250/batch/day	No change
21	Ice flaker	20/h	100/h	No change
22	Incubator	Nil	Nil	No change
23	Inductively Coupled Plasma – Optical Emission Spectrometer (ICP-OES)	The standardization fee is ₹2,000. For the samples, the pricing is tiered as follows:	The standardization fee is ₹2,000. For the samples, the pricing is tiered as follows:	Charge is reduced for bulk number of samples. The initial "warm-up" and purge cycle consume a fixed amount of gas regardless of sample count, increasing the sample throughput significantly lowers the "per-sample"

		<p>First 10 samples: ₹1,000</p> <p>Next 10 samples (up to 20): ₹750 per sample.</p> <p>Next 30 samples (up to 50): ₹500 per sample.</p> <p>Every sample beyond 50: ₹250 per sample</p>	<p>First 10 samples: ₹1200</p> <p>Next 10 samples (up to 20): ₹1,000 per sample.</p> <p>Next 30 samples (up to 50): ₹750 per sample.</p> <p>Every sample beyond 50: ₹500 per sample.</p>	overhead.
24	Inverted Research Microscope (Phase contrast and light microscopy)	50/hr	100/h	The updated fee reflects the high replacement and maintenance costs of our inverted microscope's optical components.
25	Inverted Research Microscope (Fluorescent)	150/h	300/h	Fluorescence Microscopy rates have been revised due to the high cost of specialized illumination hardware. These high-intensity lamps have limited operational hours and must be replaced regularly to maintain image quality.
26	Liquid Chromatograph – Mass Spectrometry (LC-MS) (Separate charges for extraction and clean up depends upon type of sample)	<p>The standardization fee is ₹2,000. For the samples, the pricing is tiered as follows:</p> <p>First 10 samples: ₹1,000</p> <p>Next 10 samples (up to 20): ₹750 per sample.</p> <p>Next 30 samples (up to 50): ₹500 per sample.</p> <p>Every sample beyond 50: ₹250 per sample</p>	<p>The standardization fee is ₹2,000. For the samples, the pricing is tiered as follows:</p> <p>First 10 samples: ₹2,000</p> <p>Next 10 samples (up to 20): ₹1,500 per sample.</p> <p>Next 30 samples (up to 50): ₹1,000 per sample.</p> <p>Every sample beyond 50: ₹500 per sample.</p>	Bulk analysis rates are adjusted to reflect the increased solvent efficiency achieved during continuous operation. In LC-MS workflows, a significant volume of mobile phase is utilized during initial column equilibration and system stabilization. By processing samples in larger batches, we minimize the solvent-to-sample ratio and reduce the cumulative downtime, allowing for a more cost-effective analytical cycle.
27	Microwave Digester	1000/batch	1500/batch	No change
28	Nanodrop Fluor spectrometer	20/-	60/-	Maintenance needed frequently
29	Nanodrop Spectrophotometer	20/-	60/-	Maintenance needed frequently
30	pH Meter	Nil	60/-	No change
31	Real Time PCR	100/-run	250/- per run	Reducing the cost. Working cost is comparatively less as the reagents are born by the customer
32	Refrigerated centrifuge (High Speed)	50/-batch	100/batch	Maintenance needed frequently

33	Research Microscope (upright) (Phase contrast and light microscopy)	50/-hr	150/h	The updated fee reflects the high replacement and maintenance costs of our inverted microscope's optical components.
34	Research Microscope (upright) (Fluorescent)	150/h	300/h	Fluorescence Microscopy rates have been revised due to the high cost of specialized illumination hardware. These high-intensity lamps have limited operational hours and must be replaced regularly to maintain image quality.
35	Rotary flash evaporator	150/150mL	300/- per 150 mL	No change
36	Scanning electron microscope			The extended time required for high-definition image acquisition and the rising cost of specialized consumables—including stubs, conductive tapes, and sputter coating targets—necessitate this price update to ensure continued analytical precision.
	A. Sample preparation using Sputter coater for Electron Microscopy	750/- per batch of maximum seven numbers	1000/-batch of maximum seven numbers	
	B. Electron Microscope examination	750 /hr or up to 3 images 1500/- for subsequent hours	1000 /hr or up to 3 images 2000/- for subsequent hours	
37	Scanning electron microscope - Demonstration	2000/- per batch of 10 Students		
38	Shaker water bath	Nil	200/batch	No change
39	Solvent Filtration Unit for chromatography	100/-	250/-	No change
40	Spectrophotometer UV-VIS-NIR	20/-sample 50/-sample full scan	60/- sample 150/-sample full scan	The specialized Deuterium (D2) lamps required for UV-range analysis have a limited operational lifespan and are significantly more expensive to procure.
41	Stereo Zoom Microscope	50/hr	100/hr	The revised fee structure for Stereo zoom services is necessitated by the high cost of optical alignment and illumination maintenance.
42	Thermal cycler	50/-run	100/-per run	Our Thermal Cycler rates have been adjusted to a 'run-only' fee structure. Since the client bears the cost of specialized PCR kits, master mixes, and plasticware, our charges are limited to instrument usage and mechanical overhead.
43	Tissue homogenizer	Nil	75/sample	No change
44	Ultra-centrifuge (centrifuge tube cost extra Rs. 300/- per tube)	500/ batch/6h	1000/batch/6h	No change
45	Water purification system	Type I-60/L Type II-40/L	Type I-80/L Type II-60/L	No change
46	Western Blotting	200/-	250/- per run	No change
47	Cell culture facility (Cozincubator, inverted microscope, Bio safety cabinet etc...)	500 for 15 days	1000 for 15 days	We are implementing a facility fee to support the rising operational costs of our Cell Culture Laboratory. This rate accounts for the continuous consumption of specialized gases (CO ₂), electricity and the provision of essential shared resources such as general lab disinfectants.
48	Blood sugar (in fully automated bio chemical analyser)	30/-	30/-	No change

49	Lipid Profile (FLP)	200/-	200/-	No change
50	Kidney function tests (RFT)	200/-	200/-	No change
51	Routine haematological parameters and ESR (BRE)	180/-	180/-	No change
52	Thyroid function test: (T3, T4 and TSH)	250/-	250/-	No change
53	TSH alone	100/-	100/-	No change
54	F T4 & F T3	100/-each	100/- each	No change
55	Serum Calcium, phosphorus, magnesium, iron, copper and cobalt	100/- each element	100/- each element	No change
56	Vit. D3:	600/-	750/-	Due to a significant rise in the procurement costs of specialized radioisotope-labelled kits, we are adjusting our rates for hormone analysis via RIA. Vitamin D3 analysis has transitioned from manual processing to a high-precision Radioimmunoassay (RIA) kit method. While manual methods are more variable, our new kit-based approach offers superior sensitivity and inter-assay reproducibility. Due to the significant cost of these specialized diagnostic kits and the radiolabelled components required, the analysis rate has been adjusted
57	GGT	100/-	100/-	No change
58	C-Reactive protein	100/-	100/-	No change
59	Anti-streptolysin-O (ASO)	100/-	100/-	No change
60	Rheumatoid factors (RF)	100/-	100/-	No change
61	Uric acid	100/-	100/-	No change
62	IgE	250/-	250/-	No change
63	CKMB, CPK	100/- each	100/- each	No change
64	CIL visit	50/head		

GST and Service Overview

- **Usage & Testing Charges:** A **18% GST** applies to all usage and testing fees for scholars from government and non-government organizations external to KVASU.
- **Academic Projects:** The Central Instrumentation Laboratory (CIL) hosts dissertation projects for MDS, MSc, MTech, and B. Tech students. Durations range from **1 to 3 months**, following established KVASU norms and fee structures.
- **Technical Training:** CIL provides specialized training programs focused on the operation and application of sophisticated analytical instruments.

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