

II. Testing and Calibration Services

The DOST-CAR Regional Standards and Testing Laboratory consists of three laboratories: The Chemical and Microbiological Laboratories which to cater food, water, and wastewater testing needs of customers, and the Regional Metrology Laboratory that provides calibration of weighing equipment and standards, thermometers, hygrometers and calibrating buckets.

Office or Division:	Technical Services
Classification:	Highly Technical
Type of Transaction:	G2C - for services whose client is the transacting public
	G2B - for services whose client is a business entity
	G2G - for services whose client is another government agency, government employee or official
Who may avail:	Internal and External Customers

CHECKLIST OF REQUIREMENTS	WHERE TO SECURE
List of available tests, fees, and sample requirements are indicated in the brochures below.	RSTL Office (located at the DOST-CAR Regional Office) and RML Office (located at the Benguet Provincial Science and Technology Center)

A. HANDLING OF SUBMISION OF SAMPLE/S

CLIENT STEPS	AGENCY ACTIONS	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
Submit sample/s	Customer Relations Officer (CRO) receives and evaluates the sample/s	List of available tests, fees, and sample requirements are indicated in the brochures below.	5 minutes	Customer Customer Relations Officer (CRO)
Review and sign the Technical Service Request	· If service/s is/are available, the CRO inputs customer details in the Unified Laboratory Information Management System (ULIMS), agree with customer on the terms and print request			Provincial Customer Relations Officer (PCRO)
	· If not, the CRO refers the sample/s thru the OneLab Referral Network			
For samples received in the PSTCs:	For samples received in the PSTCs:	List of available tests, fees, and sample requirements are indicated in the brochures below.		
Pay corresponding courier fee			5 minutes	Customer
	· PCRO receives and evaluates sample/s		2 days	Customer Relations Officer (CRO)
	· PCRO sends sample/s via courier to the Regional Office		3 minutes	

	<ul style="list-style-type: none"> CRO receives couriered samples in the Regional Office 		Provincial Customer Relations Officer (PCRO)
Secure Order of Payment	Encode Order of Payment	5 minutes	Accountant
Pay corresponding testing and calibration fee	Issue Official Receipt (OR)	5 minutes	Cashier
Return to RSTL Office and show issued OR	Note the OR number in the releasing form	1 minute	Customer Customer Relations Officer (CRO)
	Perform/ Conduct Testing and Calibration	2-10 working days per parameter	Analyst and Calibration Officer

B. Handling of Releasing Of Report Of Analysis

CLIENT STEPS	AGENCY ACTIONS	FEEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
Present Official Receipt (OR)	Check OR	None	1 minute	Customer
Fill – out completely the Customer Satisfaction Feedback (CSF) Form	Give Customer Satisfaction Feedback Form.	None	5 minutes	Customer Relations Officer (CRO)
	Ensure completeness of the CSF form and answer comments if there are any			
Sign in the releasing form	Release report of analysis	None	2 minutes	

SAMPLE ACCEPTANCE SCHEDULE		REMARKS
WATER SAMPLES	Monday – Tuesday 8:00AM – 2:00PM ONLY	<ul style="list-style-type: none">The Chemical and Microbiological Laboratories set acceptance schedule for water samples in order to give ample time for the incubation time (48 hours) and analysis of the physico-chemical properties. With these, the laboratories can release reports of analyses for water samples on Friday of the same week that the water sample was submitted.For food samples, the sample acceptance schedule allows appropriate sampling time and pre-analyses preparation of the food samples before the spoilage. Also, the incubation process of food samples for yeast and molds (microbiological analyses) take maximum of 7 days. Accepting food samples every Mondays allow the release of reports for microbiological analyses on the succeeding Monday.
FOOD AND OTHER SPECIAL SAMPLES	Monday 8:00AM – 2:00PM ONLY	
For more information, please contact: Tel. No: (074) 422-0979 Telefax: (074) 422-2214 Mobile No.: 0908-233-8955 (Smart) 0966-469-2205 (Globe) E-mail: rstlcar@gmail.com		

CHEMICAL AND MICROBIOLOGICAL LABORATORIES’ BROCHURE
(TESTS, FEES, AND SAMPLE REQUIREMENTS)

PHYSICO - CHEMICAL ANALYSIS

SAMPLE	PARAMETER/ TEST	TEST METHOD	FEE (PhP)
Drinking Water (2L in one container)	Nitrate*	UV-VIS	600.00
	Color (Apparent)	Visual Comparison	250.00
	Turbidity*	Nephelometric	300.00
	pH*	Electrometric	350.00
	Total Dissolved Solids*	Gravimetric	600.00
	Disinfectant Residual	DPD Colorimetric	400.00
	Lead*	AAS	1,000.00
	Cadmium	AAS	1,000.00
	Arsenic	AAS	1,000.00
Unprocessed Water (1L)	Lead*	AAS	1,200.00
	Cadmium	AAS	1,200.00
	Arsenic	AAS	1,200.00
Wastewater (two 1L wide mouth glass container)	Oil and Grease*	Modified liquid, Partition Gravimetric	1,000.00
Wastewater (two 1L)	Total Suspended Solids*	Gravimetric	650.00
Wastewater (350 mL)	Chloride*	Argentometric	750.00
Food (minimum of 250 g and 5 packs per sample)	Nutrition Facts Analysis, Computation and Drafting		4,545.00 - 5,364.00
Food	Ash*	Gravimetric	600.00
	Crude Fat*	Soxhlet	960.00
		Solvent Extraction with Acid Hydrolysis	1,200.00
	Crude Protein*	Kjeldahl	1,000.00
	Moisture*	Oven	400.00
	Sodium*	AAS	1,920.00
	Total Sugar*	Volumetric	1,100.00
	Total Carbohydrates and Energy	Calculation from Ash, Crude Fat, Crude Protein, and Moisture	180.00

Food	Nutrition Facts Computation		1,500.00
	Vitamin C*	Titrimetric	1,155.00
	Water Activity	Capacitance Humidity	375.00
Wine (minimum of five 1L bottles)	Alcohol Content*	Refractometric	350.00
	Methanol Content*	Colorimetric	2,000.00
	Reducing Sugar	Volumetric	1,000.00
	pH	Electrometric	350.00
	Volatile Acids	Titrimetric	860.00
	Titrateable Acidity	Titrimetric	560.00
Coffee (250 g)	Caffeine	Micro-Bailey Andrew Method	2,000.00
	Arsenic	AAS	2,300.00
	Lead	AAS	2,300.00
	Moisture	Oven	400.00
	Ash	Gravimetric	550.00
	Water Insoluble Solids	Gravimetric	600.00
	pH	Electrometric	350.00
Tea (250 g)	Lead	AAS	2,300.00
	Cadmium	AAS	2,300.00
	Arsenic	AAS	2,300.00
	Mercury	DMA	1,000.00
	Chromium	AAS	2,300.00
Noodles (250 g)	Borax	Qualitative	500.00
Jams and Jellies	Soluble Solids	Refractometric	360.00
	Sodium Benzoate	Titrimetric	1,000.00

SHELF LIFE ANALYSIS

Food (required amount of sample depends on the sample packaging and computation)	Shelf Life Testing	Sensory Analyses and applicable tests to determine shelf life of food product	22,400.00– 47,520.00 (depending on the sample matrix)
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MICROBIOLOGICAL ANALYSIS

SAMPLE**	PARAMETER/ TEST	TEST METHOD	FEE (PhP)
Water (In 300 mL sterile bottle)	Total Coliform + Fecal Coliform*	Multiple Tube Fermentation Technique (MTFT)	650.00
	Total coliform Count* + <i>Escherichia coli</i> * (Rapid)	MTFT	1,000.00
	Heterotrophic Plate Count*	Pour Plate	550.00
	Total Coliform Count + <i>Escherichia Coli</i> + Heterotrophic Plate Count*	MTFT and Pour Plate	1,200.00
	<i>Pseudomonas aeruginosa</i> Enumeration*	MTFT	720.00
Food (250 g)	Total coliform Count*	MTFT	550.00
	<i>Escherichia coli</i> Count*	MTFT	1,000.00
	Coliform/ <i>Escherichia coli</i> Enumeration*	OMA Petrifilm	800.00
	Aerobic Plate Count*	Pour Plate	550.00
	Yeasts and Molds*	Spread Plate	550.00
	<i>Staphylococcus aureus</i> Enumeration*	Spread Plate / OMA Petrifilm	1,200.00
	<i>Salmonella</i> Detection*	Rapid Method / OMA Petrifilm	1,000.00
	Lactic Acid Count	Petrifilm	1,000.00
	<i>Enterobacteriaceae</i> Count	OMA Petrifilm	650.00
	Yeast and Molds	OMA Petrifilm	550.00
	Commercial Sterility	BAM	2,000.00

* PAB Accredited
OMA-Official Methods of Analysis of AOAC International
AAS - Atomic Absorption Spectrophotometric
DMA - Direct Mercury Analyzer

REGIONAL METROLOGY LABORATORY’S BROCHURE

(TESTS, FEES, AND SAMPLE REQUIREMENTS)

We offer the following services:

MASS CALIBRATION			
TEST WEIGHTS (OIML R-111)			
Class/Type	Range	Calibration Fee, (Php)	Remarks
OIML Class F1/F2	1 mg to 50 g	600.00	RML Certificate
	>50 g to 500 g	650.00	
	>500 g to 10 kg	950.00	
	>10 kg to 50 kg	1,050.00	
OIML Class M1/ M2/M3	1 mg to 500 g	450.00	RML Certificate
	>500 g to 10 kg	600.00	RML Certificate with PAB Logo
	>10 kg to 50 kg	700.00	
Free Nominal [Stainless Steel]	1 mg to 50 g	600.00	RML Certificate
	>50 g to 500 g	650.00	
	>500 g to 10 kg	950.00	RML Certificate with PAB Logo
	>10 kg to 50 kg	1,050.00	
Free Nominal [Other Materials]	>500 g to 10 kg	600.00	RML Certificate with PAB Logo
	>10 kg to 50 kg	700.00	
WEIGHING SCALES			
Class/Type	Range	Calibration Fee, (Php)	Remarks
NAWI, Electronic Type Only (EURAMET CG 18)	up to 30 kg (using OIML Class E2/F1)	1,180.00	RML Certificate
High Accuracy Class (II) (OIML R-76)	up to 30 kg (using OIML Class F1/F2)	1,000.00	RML Certificate with PAB Logo (up to 200 g)
Medium Accuracy Class (III) (OIML R-76)		900.00	RML Certificate with PAB Logo (up to 30 kg)
Ordinary Accuracy (III) (OIML R-76)	up to 120 kg	800.00	RML Certificate with PAB Logo (up to 500 kg)
	>120 kg to 300 kg	1,000.00	
	>300 kg to 500 kg	1,200.00	
	>500 kg to 1000 kg (1 ton)	1,500.00	

VOLUME CALIBRATION			
Type of Equipment/ Device	Capacity	Calibration Fee, (Php)	Remarks
Calibrating Bucket/ Test Measure	10 L	500.00	RML Certificate
TEMPERATURE CALIBRATION			
Type of Equipment/ Device	Range	Calibration Fee, (Php)	Remarks
Dial/Digital/Glass/ Filled/Bimetallic Thermometer	18°C to 35°C (first 3 test points)	700.00	RML Certificate
	18°C to 35°C (per additional test point)	200.00	
Thermohygrometer	18°C to 35°C %RH: 40-70 (first 3 test points)	700.00	
	18°C to 35°C %RH: 40-70 (per additional test point)	200.00	

ON-SITE CALIBRATION CHARGE	
Within 50 km radius from Base laboratory per day per team	2,000.00
More than 50 km radius from Base laboratory per day per team	3,000.00
Training Fee	1,200.00



REGIONAL METROLOGY LABORATORY

SAMPLE ACCEPTANCE SCHEDULE	
Monday – Friday	
8:00AM – 5:00 PM	
For more information, please contact:	
Tel. No:	(074) 422-2404
Telefax:	(074) 422-2404
E-mail:	dostcarrml@gmail.com