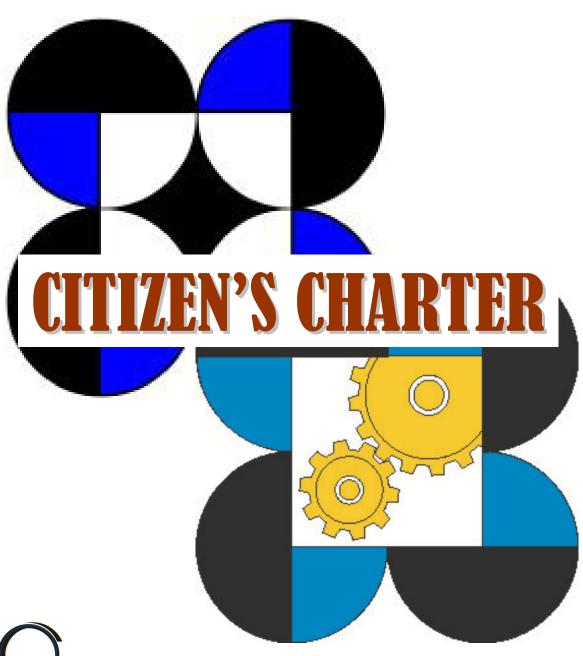
Republic of the Philippines

Department of Science and Technology **INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE**

DOST Compound, General Santos Ave., Bicutan, Taguig City Tel. Nos.: 837-2071 to 82 (DOST Trunklines); Telefax No.: 837-3167

http://www.itdi.dost.gov.ph



CERTIFICATION INTERNATIONAL ISO 9001:2008 CIP/4218/09/02/625

Our Business is Industry

i



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ITDI HISTORY

The Industrial Technology Development Institute or ITDI is one of the research and development institutes (RDIs) under the Department of Science and Technology. By virtue of Executive Order No. 128 dated January 30, 1987, ITDI is mandated to render a variety of services to local industries. It is the flagship agency of the Department, generating a large pool of technologies while providing technical services to industry.

1987 to Present - The NSTA was reorganized into the Department of Science and Technology (DOST) by virtue of Executive Order Number 128 dated 30 January 1987.

Under this reorganization, NIST was renamed **Industrial Technology Development Institute** (ITDI) and remained one of the R&D institutes under the DOST. All centers were abolished and ITDI now has ten (10) technical divisions with (MSRI) now absorbed by ITDI. Seven (7) divisions to undertake R&D activities, three (3) to render technical services and two (2) support divisions were created.

1982 - By virtue of Executive Order Number 784 dated 17 March 1982, the NSDB was reorganized into the National Science and Technology Authority (NSTA). Under the the reorganization NIST remained as one the R&D Institutes under As reorganized, research on agriculture was transferred to UPLB while the ceramics center emerged into an independent institute (MSRI). The Biological and Industrial research center were also abolished and in their place, three (3) centers were created namely: the National Research and Development (NRDC), Chemical Research and Development Center (CRDC), and the National Standards and Testing Center (NSTC). Under the NRDC and CRDC are seven(7) programs to undertake R&D activities, while the NSTC provides standardization and technical services.

1973 - As part of the overall reorganization of the Executive branch of the government, the NIST was reorganized, but retained the same name. With the merger of the Agriculture Research Center, Biological Research Center and Medical Center, only two (2) technical R&D centers remained, namely Biological Research Center and Industrial Research Center. In addition, these were the Tests and Standards Laboratory and the Scientific Instrumentation Division to provide standardization and technical services.

1958 - Under the so-called "Magna Carta of Philippine Science" RA 1067, NSB was reconstituted as the National Science Development Board (NSDB) which was designed to coordinate and supervise all scientific activities in the country. NSIRI became the **National Institute of Science and Technology (NIST)** under the supervision of NSDB.

1956 - Congress approved RA Number 1606 authorizing the establishment of the National Science Board (NSB). IST was changed to the **National Scientific and Industrial Research Institute (NSIRI)**, and was placed under supervision of NSB.

1951 - The IS was renamed **Institute of Science and Technology (IST)** by virtue of Executive Order No. 392 and for the first time primarily concerned itself to industry-oriented research.

1947 - The BS was transformed into the **Institute of Science (IS)** by virtue of Executive Order No. 94.

The History 1

1934 - The headship of the BS was passed on for the first time to a Filipino chemist. Dr. Angel S. Arguelles. The present-day Bureau of Soils, Bureau of Mines, Bureau of Fisheries and National Survey Division of Education Museum developed initially as part of the Bureau of Science during the pre-war years.

1905 - By virtue of the Philippine Commission Act. No. 1407, the BGL was reorganized into the **Bureau of Science (BS)** and expanded its functions to include the Bureau of Mines and the Ethnological Survey Division of Education.

1901 - 1st of July - **The Bureau of Government Laboratories (BGL)** came into existence through the Philippine Commission Act. No. 156. It was composed of the biological and chemical laboratories, a science library, and the Serum Laboratory of the Board of Health.

The History 2

MISSION STATEMENT

To make local industries globally competitive.

VISION STATEMENT

Excellence in propelling development as provider of technologies and services for the industry.

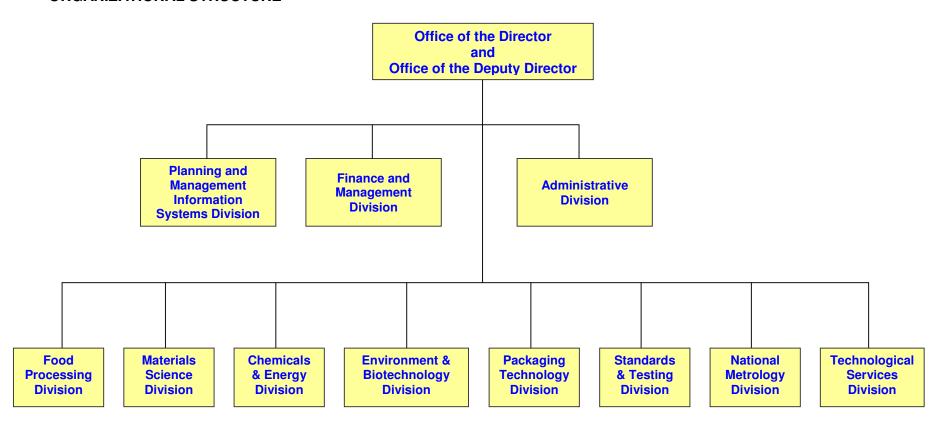
CORPORATE OBJECTIVES

- 1. To attain a "very satisfactory" customer satisfaction rating for the year through the continual improvement of our Quality Management System (QMS).
- 2. To deliver required services according to mutually agreed terms and conditions and existing applicable statutory and regulatory requirements.

QUALITY POLICY

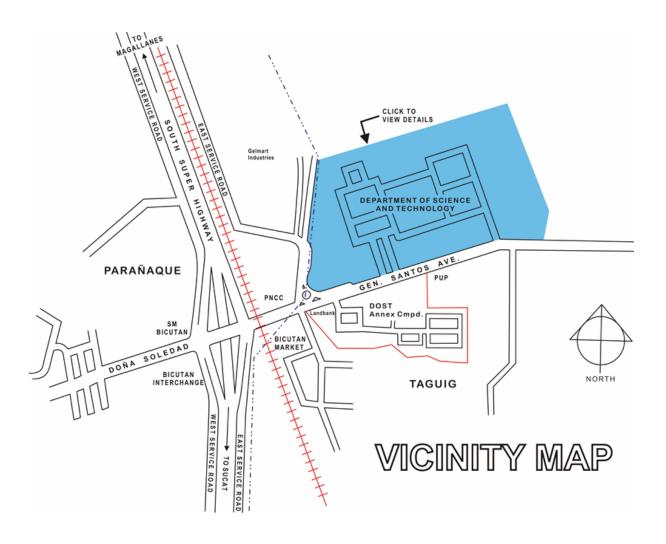
We are committed to provide innovative technologies and services in the areas of food, materials, chemicals, energy, biotechnology, environment and packaging to both private and government sectors with the highest standards of quality and reliability within our capabilities and resources according to customer and all applicable regulatory and statutory requirements and to continually improve the effectiveness of our QMS at all times in order to meet customer satisfaction.

ORGANIZATIONAL STRUCTURE



Organizational Structure 4

LOCATION



Location 5

ITDI SERVICES

In support of the ITDI mission, the Institute provides various services or interventions to industry to help modernize the production sector and improve their productivity:

Research and Development (R&D)

Multidisciplinary applied research in the fields of industrial manufacturing, mineral processing, energy and environment, using local raw materials.

Technology Transfer and Contract Projects

Transfer of mature technologies with techno-economic viability, from product/process development to techno-assessment to commercialization.

Tests and Analyses

Recognized as the national agency for tests and analyses, ITDI plays a critical role in product standardization and testing by providing analytical and testing services to industry and government agencies for various products and materials.

Food Engineering Services

A package of services offered to the local food industry and other institutions that provide them with technical assistance to improve product quality and productivity in their operations, and enable them to comply with the stringent Sanitary and Phytosanitary System requirements of international trading under the World Trade Organization (WTO). Such services include engineering consultancy and technical advisory, process development and scale up, design and fabrication of food processing equipment, and design, layout and set up of processing plant.

Metrology

As national custodian for weights and measures, ITDI's program on metrology responds to the call for accuracy and traceability in the units of measurement (e.g. mass, length, volume) for product standardization, higher quality and competitiveness of local products, and protection of the consumers.

Process Engineering

This program is a tool to solve production bottlenecks or shop floor problems and to translate ITDI developed processes into production systems. Through this program, ITDI integrates waste treatment systems, safety measures and process control systems in the enterprise modules. It also touches on the development of complex design systems that can be used for a wide range of products or a wide variety of processes in a plant. (link to foods).

ITDI Services 6

Post Harvest Handling/Near Farm Processing/Packaging

This provides encompassing solutions to problems on maintaining the quality and extending the shelf life of fresh produce from the time and place of harvest to the time and place of consumption, with minimum loss, maximum efficiency and maximum returns to all involved. Processing and marketing problems of seasonal crops are addressed by providing alternative solutions such as developing value-adding qualities to the product to ensure continuous supply beyond the harvest season.

Packaging Research and Development

Improvement of packaging system, implementation of tools of modern and innovative packaging technologies and label design to upgrade the global competitiveness of local products and institutionalizing linkages locally and abroad.

Cleaner Production (CP)

Promotion of sustainable development and strengthening of competitiveness of local industries by providing technical information and assistance in adopting CP technologies.

Advanced Device and Materials Testing Laboratory (ADMATEL)

A national testing laboratory equipped with advanced analytical equipment for failure analysis (FA) and materials characterization. It is established to reinforce and upgrade the FA and materials testing facilities of our local industry, provide shorter turn-around time for analysis, offer less expensive services, and attract potential investors seeking for a more conducive business environment.

Enterprise Module (EM)

Designed for technology to spin off from the laboratories to industry. Offers tenancy to prospective investors to set up their own business, with close supervision and mentoring. Available Ems: fruit juice processing, basi and sugarcane juice, vinegar acetator, soap, glass blowing, bioreactor, ceramics, smoked fish, and virgin coconut oil.

Energy Audit

A critical examination of an energy consuming facility to help improve energy efficiency and productivity by identifying areas where energy waste can occur and recommend energy saving opportunities. Services offered include audit of complete facility, energy equipment like boilers, dryers, motors and building, technical evaluation of energy conservation projects, and in-house training.

Industry Training and Skills Development

Hands on experience in manufacturing and various industrial processes, and demonstration/training on various technologies for income generation.

ITDI Services 7

Scale Up Production Facilities

Production facilities on a scaled up level for various technologies or processes are also available to industry such as those on: coconut oil milling and refining, food processing line (canning & dehydration), and materials processing (ceramics, plastics).

Technical Information and Promotion

Documentation and dissemination of information on S&T services, technologies and other technical inquiry data and promotion assistance to clients in various media channels.

ITDI Services 8



FRONTLINE SERVICES: TECHNOLOGICAL SERVICES DIVISION

FACILITATING REQUEST FOR TECHNICAL INQUIRIES/ASSISTANCE

CLIENT(S): General Public (Private / government offices/ schools/Organizations, industry/ NGOs, LGUs, academe, industry/ students, housewives)

FRONTLINE SERVICE	REQUIREMENTS	PROCEDURES	RESPONSIBLE PERSON	TIME
Facilitating Request for Technical Inquiries/Assistance	Office Transaction Schedule:	A. Walk-in Clients A.1 Determine information or assistance needed based on discussion with client(s).	Information Officer Mr. Alvin Arante / Ms. Josefina King	10-15 mins.
	Monday to Friday 8:00 AM to 12:00 PM 12:00 PM – 5:00 PM Relevant information materials on ITDI technologies and services	A.2 Discuss/provide the client(s) relevant information. Or provide the client with the list of info materials (i.e. brochures, flyers, hand-outs) that could be acquired. Issue the client an Order of Payment Slip for info materials acquired. The Order of Payment Slip could serve as the official receipt.	Information Officer	15-30 mins
	 (i.e., brochures, flyers etc.) Technical Service Form Customer Satisfaction Survey Form (QMS-F2) 	A.3 Refer the client(s) to concerned division/ technical expert in cases that will require in-depth discussion on technical inquiries/ assistance / services or to Training /Regional Coordinator for request for training/ techno transfer related activities.	Division Chief/ Resource Person	5 minutes
	■ Telephone/Fax machine	A.4 Request client to fill up Technical Service Form(s) for activities related to training, technology transfer, technical assistance or services for approval of chief of concerned division.	Information Officer/ Training Coordinator	10 minutes
		A.5 Advise client on the time frame/details of follow through activities i.e., preparation of Conforme Letter/ MOA, payment of fees/charges for services.	Information Officer/Training Coordinator	5 minutes
		A.6 Request the client to fill-up QMS-F2 before leaving the office.	Information Officer / Training Coordinator	5 minutes
		A.7 Forward the TS Form to concerned division for action/ approval of Division Chief.	Information Officer / Training Coordinator	Within the day



FACILITATING REQUEST FOR TECHNICAL INQUIRIES/ASSISTANCE

FRONTLINE	REQUIREMENTS	PROCEDURES	RESPONSIBLE PERSON	TIME
		A.8 Prepare MOA/CL for clearance of concerned Division Chief and approval of ITDI Director.	Training Coordinator/ Concerned Division.	Within 5 days upon approval of TS Form
		A.9 Finalize CL/MOA for training and other technical Services	Training/Regional Coordinator	Within the day upon clearance of concerned division
		A.10 Forward MOA to the Office of the Director for approval/signing.	Liason Officer of concerned division	Within the day upon receipt of document.
		A.11 Send CL/MOA to client for signing (through Fax and mail).	Training or Regional Coordinator/ Record Section	1 day after the approval/signing of the Director.
		B. Telephone Inquiries/Requests		
		B.1 Determine information or assistance needed based on phone-in discussion with client.	Information Officer/Divisional Staff	10 minutes
		B.2 Provide relevant information to phone-in clients . Or get e-mail /mailing address of client to be able to send information materials needed.	Information Officer/Divisional Staff	10 – 15 minutes
		B.3 Transfer call to local line and refer client to concerned division/ resource person (if inquiry requires a more detailed discussion).	Information Officer/Divisional Staff/ Training or Regional Coordinator	5 minutes
		B.4 For training/technical services, determine the extent of request and advise client to write a letter/e-mail details of request for action. If training could be accommodated on regular schedule, get full name and contact numbers and address of client and record in the logbook.	-do-	10 – 15 minutes
		B.5 Advise client on the details on the processing of request for training/technical services.	-do-	10 minutes



STANDARDS AND TESTING DIVISION

RENDERING TESTING SERVICES

FRONTLINE	CLIENT/S	PROCEDURES	RESPONSIBLE PERSON	TIME	REQUIREMENTS
Rendering testing services	company/ institution/ individual	Validation of technical service request	Laboratory Head/ designated validator	30 mins	Details or particulars of the requested technical service/s (i.e. name, address, contact number of customer; identification, condition of the sample; test to be conducted)
		Assignment of test to analyst	Laboratory /Section Head	15 mins	TACIS TSR (Technical Service Request) Form; workload of laboratory analysts
		Conduct of test	Analyst	Varies according to test method	Work Order Form QR 4.4.2.1(for analyst's reference), competent staff, appropriate environmental conditions, sampling plan; facilities/equipment satisfying test requirements, validated test method/s
		Computation/evaluation of test data	Analyst	Varies according to test method	worksheet/record of raw test data; data processor; relevant Technical Procedure
		Preparation of Work Order Report	Analyst	within the day	Work Order Form; worksheet/s and computations

STANDARDS AND TESTING DIVISION

RENDERING TESTING SERVICES

FRONTLINE	CLIENT/S	PROCEDURES	RESPONSIBLE PERSON	TIME	REQUIREMENTS
		Review of Work Order Report	Laboratory Head & Section Head	within the day	TACIS TSR Form; signature of analyst/Section Head; Work Order Form; worksheet/s and computations
		Print Test Report	RRU Staff	within the day	TACIS TSR Form; Work Order Report with name and signature each of analyst, Section Head, and Laboratory Head
		Final/Presentation Review of Test Report	Division Chief & Laboratory Head	within the day	TACIS TSR Form; Test Report
		Signing of Test Report	Division Chief & Laboratory Head	within the day	TACIS TSR Form; Test Report
		Releasing of Test Report	RRU Staff	15 mins	TACIS TSR Form; Test Report with signature each of analyst, Section Head, Laboratory Head and Division Chief; customer's copy of TACIS TSR Form
		Report Filing & Management	RRU Staff	15 mins	STD's copy of Test Report, TACIS TSR Form, STD's database of customers' requests/services



STANDARDS AND TESTING DIVISION

SCHEDULE OF FEES AND CHARGES FOR TESTING AND ANALYTICAL SERVICES

CHEMISTRY LABORATORY ORGANIC CHEMISTRY SECTION

SAMPLE NAME	TEST NAME	TEST METHOD	TEST FEE (PhP)	SAMPLE REQUIREMENT
FUELS AND PETRO	DLUEM PRODUCTS			
Liquid Fuels/ Lubricants	API Gravity/Specific Gravity/ Density	ASTM D4052/ASTM D1298	700.00	500mL
	Ash, straight	ASTM D 482	600.00	100mL
	Ash, Sulfated	ASTM D 874	840.00	100mL
	Color	ASTM D1500	360.00	100mL
	Copper Corrosion test	ASTM D130	700.00	100mL
	Flashpoint			
	Cleveland Open Cup (COC)	ASTM D 92	1,000.00	500mL
	Penky Martens Closed Cup (PMCC)	ASTM D 93	1,000.00	500mL
	Tag Closed Tester (TCT)	ASTM D 56	1,000.00	500mL
	Kinematic viscosity	ASTM D 445	600.00	200mL
	Total Acid Number	ASTM D 974	480.00	200mL
	Viscosity index	ASTM D 2270	1,200.00	200mL
	Water & sediments	ASTM D 1796/ASTM D2709	840.00	1L
	Water content	ASTM D 95	840.00	1L
	Compatibility Test	ASTM D 4740	1,300.00	500mL



	Sulfur	Combustion	1,400.00 1st spl,	100mL
	CHN	Combustion	900.00 next 2,800.00 1st spl,	100mL
			1,500.00 next	
	Heating value Pour Point	ASTM D240 ASTM D97	1,500.00 1,500.00	100mL 200mL
Solid Fuels (charcoal,wood biomass)	Proximate Analysis	ASTM D 1762	1,800.00	100g finely ground
	Ash	ASTM D 1762	840.00	
	Moisture	ASTM D 1762	360.00	
	Volatile Combustible Matter	ASTM D 1762	600.00	
	Fixed Carbon (by difference)	ASTM D 1762	1,800.00	
	Heating value Sulfur	ASTM D 3286 ASTM D 4239	1,500.00	
	Sullui	ASTWID 4239	1,400.00 1st spl	
			900.00 next	
	Ultimate analysis	ASTM D 5373	2,800.00 1st	
		1.612 66.6	spl,	
			1,500.00	
			next	
Anthracite Coals	Acid solubility	ANSI/AWWA B100- 96	1,500.00	1000 g granules
	Hardness, Mohs' scale		300.00	100 g blocks
Grease	Dropping Point	ASTM D 566	600.00	100 g
	Penetration Worked	ASTM D 217	800.00	500g



Brake Fluid	Dry ERBP	PNS 239	480.00	1L
	Loss on Evaporation	PNS 239	2,200.00	
	pH	PNS 239	360.00	
	Specific Gravity	ASTM D 1298	700.00	
	Kinematic viscosity @ 100 ℃	ASTM D 445	600.00	
Waxes	Drop Melting Point	ASTM D 127	720.00	100g
	Penetration, Needle	ASTM D 1321	720.00	200 g
Asphalt	Penetration, Needle	ASTM D 5	720.00	200 g
•	Softening point	ASTM D 36	720.00	50 g
PLANTS AND PHA	RMACUETICAL PRODUCTS			
Proximate Composition of	Acid insoluble ash	USP 23, [561]	1,080.00	20 g
Plant & Plant				
Products and				
Herbal Food				
Supplements		1010 000 00	0.40.00	00
	Crude Fat	AOAC 920.39	840.00	20g
	Crude Fiber	USP 23, [561]	1,440.00	20 g
	Crude Protein	AOAC 955.04	960.00	20 g
	Essential Oil content	USP 23, [561]	1,080.00	500g per set up
	Fixed Oil content	USP 23, [401]	840.00	500g
	Moisture	USP 23, [921]	600.00	20 g
	Total Ash	USP 23, [561]	720.00	20 g
Plant Components	Phytochemical (alkloids, flavonoids,	BTD Manual	600.00	300 g
	glycosides saponins, sterols,	Qualitative		
	tannins,triterpenes	TIC	1 000 00	000 -
	Alkaloids	TLC	1,200.00	300 g
	Flavonoids	TLC	1,200.00	300 g
	Glycosides	TLC	1,200.00	300 g

Frontline Service: Standards and Testing Division
Schedule of Fees and Charges for Testing and Analytical Services



	Hydrogen Cyanide	BTD Manual Qualitative	600.00	300 g
	Sterols	TLC	1,200.00	300 g
	Sugar (Glucose, Fructose, Sucrose)	HPLC	1.920.00	100 – 150g dried or
			any 1st	fresh spl
			analyte	·
			add'l analyte	
			480.00	
			each	
	Triterpenes	TLC	1,200.00	5-10g extract
				50g dried part
Plant Oils	lodine value	USP [401]	840.00	10g
(Essential & Fixed				
Oil) Plant Extracts	Define this hades	LIOD [004]	040.00	F!
	Refractive Index	USP [831]	240.00	5 mL
	Saponification Value Acid Value	USP [401] Titration	840.00	20 g 100 mL
			600.00 480.00	100 ML
	Specific Gravity Total Essential oil Content	USP [841] AOAC 932.11	1,080.00	300 mL
	Total Fixed Oil Content	USP [401]	840.00	250 g
	Viscosity (Brookfield)	ASTM D 2556	840.00	500 mL
	Scavenging activity of plant extracts	Spectrophotometer	1,800.00	200 g
	Antioxidant activity of plant extracts	Spectrophotometer	1,440.00	200 g
	Carvacrol	GC	1,800.00	5mL
			any 1st	02
			analyte add'l.	
			Analyte	
			600.00 each	
	Citral	GC		5mL



1	Citronellal	l GC	1	5mL
	Citronellol	GC		5mL
	Eucalyptol/Cineole	GC		5mL
	Eugenol	GC		5mL
	Geraniol	GC		5mL
	Limonene	GC		5mL
	Linalool	GC		5mL
	Myrcene	GC		5mL
	ą-Pinene	GC		5mL
	β-Pinene	GC		5mL
	Terpineol	GC		5mL
Alkaloids	Caffeine	HPLC	2,400.00	100 g
Tannins	Catechol	TLC	1,200.00	100 g
	Pyrogallol	TLC	1,200.00	100 g
Liquid Nutritional	Calcium	AOAC 929.07	1,920.00	1L
Supplement				
	Phosphorous	AOAC 930.35	1,440.00	500 mL
	Sodium	AOAC 966.16	1,920.00	1L
Plant Products &	ß-Carotene	HPLC	3,600.00	100 g
Herbal				
Supplements				
	Vitamin A	HPLC	3,600.00	100 g
	Vitamin B1	HPLC	3,000.00	100 g
	Vitamin B2	HPLC	3,000.00	100 g
	Vitamin B6	HPLC	3,000.00	100 g
	Vitamin E	HPLC	3,600.00	100 g
Pharmaceutical	Amoxicillin	USP 23	3,600.00	compacted/powder:
Preparations				50g



	Ampicillin	USP 23	3,600.00	capsule/tablet : 100 pcs or 50 g
	Cephalexin Guaiafenesin	USP 23 USP 23	3,600.00 3,600.00	Injectables : 10 vials or ampoules
	Minoxidil Nifedipine	USP 23 USP 23	3,840.00 3,000.00	in orig pack Powder for oral syrup/ suspension/ liquid: suspension/ liquid:4 bots in orig. pack
	Paracetamol (Acetaminophen) Rifamycin	USP 23 USP 23	2,400.00 3,600.00	·
Topical Preparations, Liniments, Ointments	Camphor	GC	1,800.00 any 1st analyte 600.00 per add'l analyte	60 – 100mL
	Menthol Eucalyptol/Cineole Methyl Salicylate	GC GC GC		
Medicated Cosmetic Soaps	Camphor Menthol	GC GC	1,800.00 1,800.00	60 – 100mL
Medicated Cosmetic Liquid Preparations	Hydroquinone	HPLC	1,800.00	4 bots in orig. pack
	Retinoic Acid (Tretinoin)		3,600.00	



	Ethanol / 2-Propanol	GC	1,800.00 any 1st analyte 600.00 per add'l analyte	250 mL
Drug, Pharmaceuticals and Cosmetic Preparations	рН	USP 23	360.00	100 mL
·	Viscosity (Brookfield)	ASTM D 2556	840.00	500 mL
	Moisture	USP 23	600.00	100 g
PAINTS AND ALLIE	ED PRODUCTS			
Water-based Paints, Latex, White; Elastomeric; Acrylic Polymer, Copolymer	Chemical resistance	ASTM D 1308		At least 4L sample
o openymen	Spot Test Immersion Test		360.00 600.00	Test panels
	Density	ASTM D 1475	480.00	
	Dry/Cure time	ASTM D 1640	360.00	
	Fineness of Grind	ASTM D 1210	360.00	
	Gloss Measurement	ASTM D 523 ASTM D 2371	360.00 1,440.00	
	Pigment and Vehicle content Titanium Dioxide	ASTM D 2371 ASTM D 1394	1,200.00	
	If requested alone	ASTIN D 1394	1,920.00	
	Total Solids, % weight Viscosity (KU)	ASTM D 2369 ASTM D562	480.00 480.00	



	Volume non-volatile matter If requested alone Water resistance	ASTM D2697 ASTM D870	840.00 1,800.00 360.00	
Organic solvent- based Paints, Enamel, White; Polyurethane	Adhesion	ASTM D 3359	360.00	At least 4L sample
	Density Dry/Cure time Fineness of Grind Flexibility Gloss Measurement Hardness Pigment and Vehicle content Titanium Dioxide If requested alone Total Solids, % weight Viscosity (KU) Volume non-volatile matter or Total Solids, % volume If requested alone	ASTM D 1475 ASTM D 1640 ASTM D 1210 ASTM D 522 ASTM D 523 ASTM D 3363 ASTM D 2371 ASTM D 1394 ASTM D 2369 ASTM D 562 ASTM D 2697	480.00 360.00 360.00 360.00 360.00 1,440.00 1,200.00 1,920.00 480.00 480.00	Test panels
Primer Paints: Zn Yellow, Red Lead, Ferrous Oxide	Adhesion	ASTM D 3359	360.00	At least 4L sample
	Density Dry/Cure time Fineness of Grind Flexibility Gloss Measurement	ASTM D 1475 ASTM D 1640 ASTM D 1210 ASTM D 522 ASTM D 523	480.00 360.00 360.00 360.00	Test panels



1	Hardness	ASTM D 3363	360.00	1
	Iron Oxide (Iron Oxide Primer)	ASTM D 5003	1,200.00	
	If requested alone	/ CTW B GG	1,920.00	
	Pigment and Vehicle content	ASTM D 2371	1,440.00	
	Red Lead (Red Lead Primer)	ASTM D28	1,200.00	
	If requested alone	7.61.11.526	1,920.00	
	Total Solids, % weight	ASTM D 2369	480.00	
	Viscosity (KU)	ASTM D 562	480.00	
	Volume non-volatile matter	ASTM D 2697		
	or Total Solids, % volume		840.00	
	If requested alone		1,800.00	
	Chromium (Zn Yellow Primer)	ASTM D 444	1,200.00	
	If requested alone		1,920.00	
	Zinc (Zn Yellow Primer)	ASTM D 444	1,200.00	
	If requested alone		1,920.00	
Reflectorized	Density	ASTM D 1475	480.00	At least 4L sample
Traffic Marking				
Paints: White and				
Yellow				
	Dry/Cure time/No-Pick-Up time	ASTM D 1640/D711	360.00	Test panels
	Glassbeads			
	Content	JIS K5665	600.00	
	Density	JIS R3301	600.00	
	Gradation	ASTM D1214	1,200.00	
	Lead, Total (for yellow paint)	ASTM D126	1,200.00	
	If requested alone	107110007/04/5	1,920.00	
	Pigment & Vehicle Content	ASTM D237/D4451	1,440.00	
	Titanium Dioxide (for white paint	ASTM D1394	1,200.00	
	If requested alone		1,920.00	



	Total Solids, % weight	ASTM D2369	480.00	
	Water resistance	ASTM D870	360.00	
Thermoplastic	Calcium Carbonate	ASTM C25	1,080.00	At least 1kg sample
Powder Paints				
White and Yellow				
	If requested alone		1,560.00	
	Dry/Cure time	ASTM D1640	360.00	
	Glassbeads			
	Content	JIS K5665	600.00	
	Density	JIS R3301	600.00	
	Gradation	ASTM D1214	1,200.00	
	Lead, Total (for yellow paint)	ASTM D126	1,200.00	
	If requested alone		1,920.00	
	Pigment	ASTM D4451	840.00	
	Softening Point	ASTM E28	840.00	
	Titanium Dioxide (for white paint)	ASTM D1394	1,200.00	
	If requested alone		1,920.00	
	Chrome Yellow (for yellow paint)	ASTM D1394	1,200.00	
	If requested alone		1,920.00	
Aluminum Paints	Density	ASTM D1475	480.00	At least 4L sample
	Dry/Cure time	ASTM D1640	360.00	Test panels
	Pigment and Vehicle content	ASTM D2371	1,440.00	-
	Viscosity (Ford Cup #4)	ASTM D1200	480.00	
	Volatile and nonvolatile Matter	ASTM D2369	600.00	
	Water content	ASTM D95	600.00	
	Adhesion	ASTM D3359	360.00	
	Chemical resistance	ASTM D1308		
	Spot Test		360.00	
	Immersion Test		600.00	



	Additional substrate		120.00	
	Heat resistance	ASTM D2485	3,000.00	
	Total Solids, % weight	ASTM D2369	480.00	
	Total Solids, % volume	ASTM D2697	840.00	
	If requested alone		1,800.00	
Avion Blue Enamel Paint	Adhesion	ASTM D3359	360.00	At least 4L sample
	Chemical resistance	ASTM D1308		Test panels
	Spot Test		360.00	·
	Immersion Test		600.00	
	Additional substrate		120.00	
	Density	ASTM D1475	480.00	
	Dry/Cure time	ASTM D1640	360.00	
	Fineness of Grind	ASTM D1210	360.00	
	Flexibility	ASTM D522	360.00	
	Hardness	ASTM D3363	360.00	
	Total Solids, % weight	ASTM D2369	480.00	
	Viscosity (Ford Cup #4)	ASTM D1200	480.00	
	Water resistance	ASTM D870	360.00	
Epoxy Paints	Adhesion	ASTM D3359	360.00	At least 4L sample
	Chemical resistance	ASTM D1308		Test panels
	Spot Test		360.00	
	Immersion Test		600.00	
	Additional substrate		120.00	
	Density	ASTM D1475	480.00	
	Dry/Cure time	ASTM D1640	360.00	
	Flexibility	ASTM D522	360.00	
	Hardness	ASTM D3363	360.00	
	Total Solids, % weight	ASTM D2369	480.00	

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	Total Solids, % volume If requested alone Viscosity (KU) Water resistance	ASTM D2697 ASTM D562 ASTM D870	840.00 1,800.00 480.00 360.00	
Adhesives	Viscosity, Krebs Unit Total Solids (non volatile content) Viscosity (Brookfield)	ASTM D1084 ASTM D4426 ASTM D1084	480.00 480.00 840.00	At least 1L/analyte
Glue	pH Free formaldehyde Solid Content	PNS 1800:2000	360.00 600.00 600.00	At least 1L/analyte
Physical analysis of Fingerprint Taker	Thumbprint Impressions, plain	Sirchie Fingerprint Method	960.00	at least 10 pcs.
Indelible Ink	Silver Nitrate, % w/w	ISTD (Gravimetry/ Titrimetry)	1,920.00	at least 150 mL
FOOD AND FEEDS				
Foods/Feeds	Protein	Block Digestion Method	960.00	200 mL or 200 g
	Ash	AOAC	540.00	200 g
	Ash-Acid insoluble	Gravimetric	900.00	200 g
	Ash-Water soluble & insoluble	Gravimetric	1,020.00	200 g
	Ash-Alkalinity	Gravimetric	1,020.00	200 g
	Ash-Alkalinity of Water, Insoluble	Gravimetric	1,440.00	200 g
	Ash-Alkalinity of Water Soluble	Gravimetric	1,320.00	200 g
	Ash-Sulphated	Gravimetric	900.00	200 g
	Crude Fiber	Gravimetric	1,380.00	200 g
	Moisture	Gravimetric	360.00	200 g
	Crude Fat Starch	Acid hydrolysis Direct acid hydrolysis	1,080.00 1,200.00	200 g 200 g



Food Energy (Calories)	By computation	2,940.00	500 g
Total carbohydrate	By difference	2,940.00	500 g
Total Dietary Fiber	AOAC	7,200.00	300 g
pH	AOAC	300.00	200 g
Cholesterol	HPLC	3,960.00	300 g
Caffeine	HPLC	2,400.00	300 g
Sorbic Acid	HPLC	3,960.00	300 g
Squalene in fish oil	HPLC	6,000.00	200 g
Benzoic Acid	HPLC	3,960.00	300 g
Nitrite in meat	AOAC	1,440.00	400 g
Calcium	AOAC	1,920.00	1L T
Iron	AOAC	1,920.00	500 mL
Magnesium	AOAC	1,920.00	1L
Manganese	AOAC	1,920.00	1L
Potassium	AOAC	1,920.00	1L
Sodium	AOAC	1,920.00	1L
Zinc	AOAC	1,920.00	500 mL
Lead	AOAC	1,920.00	500 mL
Cadmium	AOAC	1,920.00	500 mL
Mercury	Cold Vapor AAS	1,920.00	500 mL
Copper	AOAC	1,920.00	500 mL
Phosphorous	AOAC	1,920.00	500 mL
Arsenic	AOAC	1,920.00	500 mL
Acidity (Titratable) in fruit/ veg. product	AOAC	540.00	300 mL
Acidity (Volatile) in fruit/ veg. product	AOAC	480.00	300 mL
Solids (Soluble) in fruit/ veg. Product	AOAC	480.00	200 mL
Solids (Water-insoluble) in fruit/ veg.	AOAC	360.00	200 mL
Product			
Sodium Chloride	AOAC	600.00	200 g



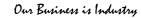
	Solids (Total)	AOAC	360.00	200 g
Sugar and sugar products	Total Reducing Sugar	AOAC	1,080.00	200 g
•	Free Reducing Sugar	AOAC	840.00	200 g
	Density	AOAC	480.00	200 g
	Specific Gravity	AOAC	480.00	200 g
	Total Solids (% in syrup)	AOAC	480.00	100 g
	Lactose Purity	HPLC	2,400.00	100 g
	Fructose Purity	HPLC	2,400.00	100 g
	Glucose Purity	HPLC	2,400.00	100 g
	Sucrose Purity	HPLC	2,400.00	100 g
	Sucrose	AOAC	1,800.00	200 g
	Aspartame (Beverage)	HPLC	2,400.00	200 g
	Lactose in milk	HPLC	2,400.00	200 g
	Glycerol	HPLC	2,400.00	200 g
Vinegar	Acid (as Acetic Acid), Total	AOAC 930.35	540.00	200 mL/ analyte
· ·	Alcohol	AOAC 930.35	600.00	·
	Alkalinity of soluble ash	AOAC 900.02	1,320.00	
	Ash	AOAC 930.35	540.00	
	Nonvolatile acids	AOAC 930.35	600.00	
	Nonvolatile reducing substances	AOAC 930.35	1,200.00	
	Permanganate Oxidation Number	AOAC 944.10	1,200.00	
	Total Solids	AOAC 930.35	360.00	
	Total soluble solids	AOAC 930.35	480.00	
	Volatile Acids	AOAC 930.35	480.00	
	If requested alone		1,140.00	
Fats and Oils	Specific Gravity	AOAC 985.19	480.00	200 mL/analyte
	Fatty Acid Profile	GC	2,400.00	•
	(For solid food, additional fee for		1,080.00	



Free Fatty Acid/Acid No.	Ī	l	I	1	1
Index of Refraction		extraction)	1010010		
Iodine Absorption Number					
Melting Point of Fat/Fatty Acid AOAC 920.157 480.00 Moisture/Volatile Matter AOAC 962.12 360.00 Peroxide Value AOAC 965.33 600.00 Saponification Value AOAC 920.160 720.00 Specific Gravity AOAC 920.212 480.00 Unsaponifiable Matter AOAC 033.08 1,320.00 Viscosity (Brookfield) ASTM D 2564/1084 840.00 1L 200 mL/ analyte Vitamins in Food/Feeds Vitamin A (Retinol) HPLC 3,600.00 300 g/analyte Food/Feeds HPLC 3,960.00 Vitamin B HPLC 3,960.00 Vitamin B1 HPLC 3,000.00 Vitamin B1 HPLC 3,000.00 Vitamin B2 HPLC 3,000.00 Vitamin B6 HPLC 3,000.00 Vitamin C HPLC 2,400.00 Vitamin C					
Moisture/Volatile Matter		I			
Peroxide Value AOAC 965.33 600.00 Saponification Value AOAC 920.160 720.00 AOAC 920.212 480.00 AOAC 920.212 480.00 AOAC 920.212 480.00 AOAC 920.212 AOAC 920.			AOAC 920.157	480.00	
Saponification Value AOAC 920.160 720.00 Specific Gravity AOAC 920.212 480.00 Unsaponifiable Matter AOAC 033.08 1,320.00 1L 200 mL/ analyte ASTM D 2564/1084 840.00 1L 200 mL/ analyte ASTM D445 600.00 200 mL/ analyte ASTM D445 600.00 300 g/analyte ASTM D445 ASTM D445 600.00 300 g/analyte ASTM D445		Moisture/Volatile Matter	AOAC 962.12	360.00	
Specific Gravity		Peroxide Value	AOAC 965.33	600.00	
Unsaponifiable Matter AOAC 033.08 1,320.00 1L 200 mL/ analyte		Saponification Value	AOAC 920.160	720.00	
Viscosity (Brookfield) ASTM D 2564/1084 840.00 1L Viscosity (Cannon-Fenske) ASTM D445 600.00 200 mL/ analyte Vitamins in Food/Feeds Vitamin A (Retinol) HPLC 3,600.00 300 g/analyte Total Vitamin A (Retinol + β-carotene) HPLC 6,000.00 400.00 400.00 β-carotene HPLC 3,600.00 400.00 400.00 400.00 Vitamin E HPLC 3,000.00 400.00 400.00 400.00 Vitamin B1 HPLC 3,000.00 400.00 400.00 400.00 Vitamin B6 HPLC 3,000.00 400.00 400.00 400.00		Specific Gravity	AOAC 920.212	480.00	
Viscosity (Cannon-Fenske) ASTM D445 600.00 200 mL/ analyte Vitamins in Food/Feeds Vitamin A (Retinol) HPLC 3,600.00 300 g/analyte Total Vitamin A (Retinol + β-carotene) β-carotene Vitamin E Vitamin E Niacinamide in juice HPLC Niacinamide in juice 3,960.00 Vitamin B1 Vitamin B2 Vitamin B2 Vitamin B6 Vitamin C HPLC Niacinamide N		Unsaponifiable Matter	AOAC 033.08	1,320.00	
Vitamins in Food/Feeds Vitamin A (Retinol) HPLC 3,600.00 300 g/analyte Total Vitamin A (Retinol + β-carotene) HPLC 6,000.00 7,000.00 7,000.00 7,000.00 7,000.00 7,000.00 7,000.00 7,000.00 7,000.00 7,000.00 7,000.00 7,000.00 7,000.00 7,000.00 7,000.00 7		Viscosity (Brookfield)	ASTM D 2564/1084	840.00	1L
Food/Feeds Total Vitamin A (Retinol + β-carotene) HPLC 6,000.00 β-carotene HPLC 3,600.00 Vitamin E HPLC 3,960.00 Niacinamide in juice HPLC 3,000.00 Vitamin B1 HPLC 3,000.00 Vitamin B2 HPLC 3,000.00 Vitamin B6 HPLC 3,000.00 Vitamin C HPLC 2,400.00		,	ASTM D445	600.00	200 mL/ analyte
Food/Feeds Total Vitamin A (Retinol + β-carotene) HPLC 6,000.00 β-carotene HPLC 3,600.00 Vitamin E HPLC 3,960.00 Niacinamide in juice HPLC 3,000.00 Vitamin B1 HPLC 3,000.00 Vitamin B2 HPLC 3,000.00 Vitamin B6 HPLC 3,000.00 Vitamin C HPLC 2,400.00	Vitamins in	Vitamin A (Retinol)	HPLC	3,600.00	300 g/analyte
B-carotene HPLC 3,600.00 Vitamin E HPLC 3,960.00 Niacinamide in juice HPLC 3,000.00 Vitamin B1 HPLC 3,000.00 Vitamin B2 HPLC 3,000.00 Vitamin B6 HPLC 3,000.00 Vitamin C HPLC 2,400.00	Food/Feeds	,		·	,
Vitamin E HPLC 3,960.00 Niacinamide in juice HPLC 3,000.00 Vitamin B1 HPLC 3,000.00 Vitamin B2 HPLC 3,000.00 Vitamin B6 HPLC 3,000.00 Vitamin C HPLC 2,400.00		Total Vitamin A (Retinol + B-carotene)	HPLC	6,000.00	
Niacinamide in juice HPLC 3,000.00 Vitamin B1 HPLC 3,000.00 Vitamin B2 HPLC 3,000.00 Vitamin B6 HPLC 3,000.00 Vitamin C HPLC 2,400.00		ß-carotene `	HPLC	3,600.00	
Niacinamide in juice HPLC 3,000.00 Vitamin B1 HPLC 3,000.00 Vitamin B2 HPLC 3,000.00 Vitamin B6 HPLC 3,000.00 Vitamin C HPLC 2,400.00		Vitamin E	HPLC	3,960.00	
Vitamin B1 HPLC 3,000.00 Vitamin B2 HPLC 3,000.00 Vitamin B6 HPLC 3,000.00 Vitamin C HPLC 2,400.00		Niacinamide in juice	HPLC	3,000.00	
Vitamin B2 HPLC 3,000.00 Vitamin B6 HPLC 3,000.00 Vitamin C HPLC 2,400.00			HPLC	3,000.00	
Vitamin B6 HPLC 3,000.00 Vitamin C HPLC 2,400.00		Vitamin B2	HPLC		
Vitamin C HPLC 2,400.00		Vitamin B6	HPLC		
Distilled Acids AOAC 1L		Vitamin C	HPLC		
	Distilled	Acids	AOAC	,	1L
Liquors/Wines/Beer	Liquors/Wines/Beer				
Total Acids 540.00	,	Total Acids		540.00	
Fixed Acids 600.00		Fixed Acids			
Volatile acids (If requested alone) 1,140.00					
Alcohol GC 1,800.00 1L		, , ,	GC		1L
Ash AOAC 540.00 500 mL				,	



	Ethanol/Methanol	GC	1,800.00 1st	1L
			analyte	
			+600.00	
			add'l analyte	
	Fusel Oil	GC	1,800.00	1L
	Higher Alcohol & Ethly Acetate	AOAC	1,800.00 1st	1L
			analyte	
			+600.00	
			add'l analyte	
	Specific Gravity	AOAC	480.00	500 mL
	Total Aldehydes	AOAC	600.00	1L
	Total Acidity (for wines as Tartaric, Malic or Citric)	AOAC	540.00	500 mL
Ethyl Alcohol	Acetone	GC	1,800.00	200 mL
Littyi Alconoi	Benzene	GC	840.00	200 mL
	Purity	GC	1,800.00	200 mL
	Fusel Oil & Amyl Alcohol	GC	1,800.00	200 mL
Organic Solvent	Density	ASTM	480.00	200 mL
and Chemicals	A . 1.11	AOTNA DAOAO	0.40.00	0001
	Acidity	ASTM D1613	840.00	200 mL
	Water Miscibility	ASTM D1722	480.00	200 mL
	pH	ASTM E 70	360.00	200 mL
	Purity	GC	1,800.00	200 mL
	Residue on Evaporation	ASTM D 1353	720.00	200 mL
	Refractive Index	Refractometric Method	360.00	200 mL
	Viscosity (Brookfield)	ASTM	840.00	500 mL
	Flash Point, TCT	ASTM	1,000.00	300 mL
Disinfectant	Benzalkonium Chloride content	USP	1,200.00	200 mL





	Viscosity (Brookfield) pH	ASTM ASTM E 70	840.00 360.00	1L 200 mL
Toilet Soap/Laundry	Moisture & Volatile Matter	PNS	720.00	200 g
Soap	Total Matter Insolvible (alcohol, NaCl)	DNC	1 220 00	200 ~
	Total Matter Insoluble (alcohol+NaCl) Free Alkali (as NaOH or Na2O)	PNS PNS	1,320.00 720.00	200 g 200 g
	Matter insoluble in Water	PNS	360.00	200 g
	If requested alone	PNS	1,080.00	200 g
	Anhydrous soap	PNS	1,440.00	200 g
Other Test	FTRI Scan	FTIR	590.00	

CHEMISTRY LABORATORY INORGANIC CHEMISTRY SECTION

SAMPLE NAME	TEST NAME	TEST METHOD	TEST FEE (PhP)	SAMPLE REQUIREMENT
Water (Deepwell, Spring, Distilled, Deionized, Bottle) and Wastewater (Effluent, Influent)	Aluminum	GF-AAS	1,500.00	Not less than 6L
	Aluminum Ammonium	Colorimetry Colorimetry	700.00 700.00	



Cadmium AAS 800.00 Cadmium GF-AAS 1,500.00 Cadmium Colorimetry 700.00 Calcium AAS 800.00 Calcium EDTA Titration 550.00 Calcium Colorimetry 700.00 Chloride Argentometric 700.00 Chlorine, Free Colorimetry 700.00 Chlorine (Residual) Iodometric 550.00 Chromium AAS 800.00 Chromium GF-AAS 1,500.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry(SQ 118) 275.00 Color Platinum Standard 700.00 Conductivity Electrical 350.00 Conductivity Method AAS 800.00	rsenic		Mercuric Bromide	500.00	
Anions (F, Cl, NO2, Br, NO3, PO4, SO4) Succeeding ions Cadmium Cadmium Cadmium Calcium Calcium Calcium Chloride Chlorine, Free Chlorine (Residual) Chromium Chromium Chromium Chromium Cholor Chorium Chorium Chorium Chorium Chorium Chlorium Chromium Chromiu	roonio			1 500 00	
(F, Cl, NO2, Br, NO3, PO4, SO4) (1st analyte) Succeeding ions 400.00 Cadmium AAS 800.00 Cadmium GF-AAS 1,500.00 Cadmium Colorimetry 700.00 Calcium AAS 800.00 Calcium EDTA Titration 550.00 Calcium Colorimetry 700.00 Chloride Argentometric 700.00 Chlorine, Free Colorimetry 700.00 Chlorine (Residual) lodometric 550.00 Chromium AAS 800.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry 700.00 Color Platinum Standard 700.00 Conductivity Electrical 350.00 Copper AAS 800.00				•	
PO4, SO4 Succeeding ions			IC		
Cadmium AAS 800.00 Cadmium GF-AAS 1,500.00 Cadmium Colorimetry 700.00 Calcium AAS 800.00 Calcium EDTA Titration 550.00 Calcium Colorimetry 700.00 Chloride Argentometric 700.00 Chlorine, Free Colorimetry 700.00 Chlorine (Residual) Iodometric 550.00 Chromium AAS 800.00 Chromium GF-AAS 1,500.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry(SQ 118) 275.00 Color Platinum Standard 700.00 Conductivity Electrical 350.00 Conductivity Method AAS 800.00		3,		(1st analyte)	
Cadmium GF-AAS 1,500.00 Cadmium Colorimetry 700.00 Calcium AAS 800.00 Calcium EDTA Titration 550.00 Calcium Colorimetry 700.00 Chloride Argentometric 700.00 Chlorine, Free Colorimetry 700.00 Chlorine (Residual) Iodometric 550.00 Chromium AAS 800.00 Chromium GF-AAS 1,500.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry(SQ 118) 275.00 Conductivity Electrical 350.00 Conductivity Method Conductivity Method 800.00	ucceeding ions			400.00	
Cadmium Colorimetry 700.00 Calcium AAS 800.00 Calcium EDTA Titration 550.00 Calcium Colorimetry 700.00 Chloride Argentometric 700.00 Chlorine, Free Colorimetry 700.00 Chlorine (Residual) lodometric 550.00 Chromium AAS 800.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry(SQ 118) 275.00 Color Platinum Standard 700.00 Conductivity Electrical 350.00 Conductivity Method Conductivity Method	admium		AAS	800.00	
Calcium AAS 800.00 Calcium EDTA Titration 550.00 Calcium Colorimetry 700.00 Chloride Argentometric 700.00 Chlorine, Free Colorimetry 700.00 Chlorine (Residual) Iodometric 550.00 Chromium AAS 800.00 Chromium GF-AAS 1,500.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry(SQ 118) 275.00 Color Platinum Standard 700.00 Conductivity Electrical 350.00 Conductivity Method Conductivity Method 800.00	admium		GF-AAS	1,500.00	
Calcium EDTA Titration 550.00 Calcium Colorimetry 700.00 Chloride Argentometric 700.00 Chlorine, Free Colorimetry 700.00 Chlorine (Residual) Iodometric 550.00 Chromium AAS 800.00 Chromium hexavalent GF-AAS 1,500.00 Color Colorimetry 700.00 Color Colorimetry(SQ 118) 275.00 Conductivity Electrical 350.00 Conductivity Method Conductivity Method 800.00	admium		Colorimetry	700.00	
Calcium Colorimetry 700.00 Chloride Argentometric titration 700.00 Chlorine, Free Colorimetry 700.00 Chlorine (Residual) Iodometric 550.00 Chromium AAS 800.00 Chromium GF-AAS 1,500.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry(SQ 118) 275.00 Color Platinum Standard 700.00 Conductivity Electrical 350.00 Conductivity Method Conductivity Method 800.00	alcium		AAS	800.00	
Chloride Argentometric 700.00 titration Chlorine, Free Colorimetry 700.00 Chlorine (Residual) Iodometric 550.00 Chromium AAS 800.00 Chromium GF-AAS 1,500.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry 700.00 Color Colorimetry Color Colorimetry Color Colorimetry Color Colorimetry Color Conductivity Electrical 350.00 Conductivity Method Copper AAS 800.00	alcium		EDTA Titration	550.00	
Chlorine, Free Colorimetry 700.00 Chlorine (Residual) Iodometric 550.00 Chromium AAS 800.00 Chromium GF-AAS 1,500.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry 700.00 Color Platinum Standard 700.00 Conductivity Electrical 350.00 Conductivity Method Copper AAS 800.00	alcium		Colorimetry	700.00	
Chlorine, Free Colorimetry 700.00 Chlorine (Residual) Iodometric 550.00 Chromium AAS 800.00 Chromium GF-AAS 1,500.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry(SQ 118) 275.00 Conductivity Electrical 350.00 Conductivity Method Copper AAS 800.00	hloride		Argentometric	700.00	
Chlorine (Residual) lodometric 550.00 Chromium AAS 800.00 Chromium GF-AAS 1,500.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry(SQ 118) 275.00 Color Platinum Standard 700.00 Conductivity Electrical 350.00 Conductivity Method AAS 800.00			titration		
Chromium AAS 800.00 Chromium GF-AAS 1,500.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry(SQ 118) 275.00 Color Platinum Standard 700.00 Conductivity Electrical 350.00 Copper AAS 800.00	hlorine, Free		Colorimetry	700.00	
Chromium GF-AAS 1,500.00 Chromium hexavalent Colorimetry 700.00 Color Colorimetry(SQ 118) 275.00 Color Platinum Standard 700.00 Conductivity Electrical 350.00 Conductivity Method Copper AAS 800.00	hlorine (Residua		Iodometric	550.00	
Chromium hexavalent Color Color Color Color Platinum Standard Conductivity Electrical Conductivity Method Copper AAS Colorimetry 700.00 Platinum Standard 700.00 Conductivity Method 800.00	hromium		AAS	800.00	
Color Colorimetry(SQ 118) 275.00 Color Platinum Standard 700.00 Conductivity Electrical 350.00 Conductivity Method AAS 800.00	hromium		GF-AAS	1,500.00	
Color Platinum Standard 700.00 Conductivity Electrical 350.00 Conductivity Method Copper AAS 800.00	hromium hexav	nt	Colorimetry	700.00	
Conductivity Electrical 350.00 Conductivity Method Copper AAS 800.00	olor		Colorimetry(SQ 118)	275.00	
Copper Conductivity Method AAS 800.00	olor		Platinum Standard	700.00	
Copper AAS 800.00	onductivity		Electrical	350.00	
			Conductivity Method		
05.440	opper		AAS	800.00	
Copper GF-AAS 1,500.00	opper		GF-AAS	1,500.00	
Cyanide, Free Colorimetry 700.00	yanide, Free		Colorimetry	700.00	
			Colorimetry	700.00	
Formaldehyde Colorimetry 700.00	ormaldehyde		Colorimetry	700.00	



Hydrazine	Colorimetry	700.00
Iron	AAS	800.00
Iron	GF-AAS	1,500.00
Iron	Colorimetry	700.00
Lead	AAS	800.00
Lead	GF-AAS	1,500.00
Lead	Colorimetry	700.00
Magnesium	AAS	800.00
Magnesium	EDTA-By difference	550.00
Manganese	AAS	800.00
Manganese	GF-AAS	1,500.00
Mercury	Cold Vapor AAS	1,500.00
Nickel	AAS	800.00
Nickel	GF-AAS	1,500.00
Nitrate	Colorimetry	700.00
Nitrite	Colorimetry	700.00
Nitrogen, Total	Colorimetry	700.00
Nitrogen (Ammonia-Nitrogen)	Distillation/Titration	850.00
pH	pH Potentionetry	200.00
Phenol	Colorimetry	700.00
Phosphorus	Colorimetry	700.00
Potassium	AAS/Flame Emission	800.00
Potassium	Colorimetry	700.00
Silica	Gravimetry	570.00
Silicon	Colorimetry	700.00
Silver	AAS	800.00
Sodium	AAS/Flame Emission	800.00
Sulfate	Colorimetry	700.00
Surfactant (anionic)	Colorimetry SQ	700.00



(Mactawator)	Total Acidity as CO2 Total Alkalinity as CaCO3 Total Hardness Total Dissolved Solids Total Solids Turbidity Zinc Zinc COD	Titrimetry Titrimetry EDTA Titration Gravimetry Gravimetry Turbidimetry GF-AAS AAS Closed Reflux	550.00 550.00 550.00 550.00 550.00 270.00 1,500.00 800.00	
(Wastewater)	Total Suspended Solids Settleable Solids Oil & Grease	Gravimetry Imhoff Pet. Ether Extraction/Gravimetri c	550.00 550.00 550.00 1,000.00	
Fertilizers and Related Materials Organic Fertilizer	Micronutrient (Calcium/Copper/ Chromium/Iron/ Magnesium/Manganese/Nickel/ Zinc)	AAS	850.00 per element	For solid sample – at least 200g For liquid sample – at least 200mL
	Moisture Phosphorous, Available Phosphorous, Total Phosphorous, Citrate Soluble Phosphorous, Water Soluble Potash (K2O) N,P,K	AOAC AOAC AOAC AOAC AOAC AAS	600.00 850.00 850.00 850.00 850.00 850.00 per element	
Soil, Sediments, Sludge	Arsenic Arsenic	Mercuric Bromide HVG AAS	800.00 1,500.00	at least 250g



	Cadmium/Calcium/Chromium/Copper/Gol d/Iron/Lead/Magnesium/ Manganese/Zinc	AAS	850.00 per element	
Clay and Related Materials, Pozzalan Cement/Perlite/ Zeolite/Refractorie s/ Fly Ash Sand/Silica Sand (99.9 % SiO2) Diatomaceous Earth (77% SiO2) Rice Hull (90% SiO2) Ceramics/Glass	Complete Chemical Analysis (SiO2, Fe2O3, Al2O3, TiO2, CaO, MgO, Na2O, K2O, LOI)	JISM 5584	5,500.00	at least 250g
Borosilicate glass	Alumina Calcium Oxide Iron Oxide Loss on Ignition Magnesium Oxide Moisture Potassium Oxide Silica Sodium Oxide Titania Manganese Oxide Boron Oxide	JISM 5584 JISM 5584 JISM 5584 JISM 5584 JISM 5584 JISM 5584 JISM 5584 JISM 5584 JISM 5584 JISM 5584 AAS Titrimetry ASTM 169-	1,350.00 880.00 850.00 550.00 1,330.00 550.00 700.00 1,070.00 700.00 930.00 800.00 1,500.00	



	Extractable Chloride	92 Titrimetry(Argentome tric)	720.00	
	-do-	IC	800.00	
Cement (Hydraulic, Portland) Aggregates	Complete Chemical Analysis (SiO2, Fe2O3, Al2O3, TiO2, CaO, MgO, SO3, LOI, Insoluble Residue)	ASTM C114	4,800.00	at least 250g
l iggi eganee	Alumina	ASTM C114	850.00	
	Silica	ASTM C114	600.00	
	Calcium Oxide	ASTM C114	700.00	
	Insoluble Residue	ASTM C114	500.00	
	Iron Oxide	ASTM C114	850.00	
	Loss on Ignition	ASTM C114	550.00	
	Magnesium Oxide	ASTM C114	1,100.00	
	Potassium Oxide	ASTM C114	700.00	
	Sodium Oxide	ASTM C114	700.00	
	Sulfate/Sulfur Trioxide	ASTM C114	930.00	
	Titania	ASTM C114	700.00	
Limestone (CaCO3), Quicklime (CaO), Hydrated Lime (Ca(OH)2), Scales, etc. Calcite -CaCO3 Lime - CaO (apog)	Complete Chemical Analysis (SiO2, Fe2O3, Al2O3, CaO, MgO, LOI	ASTM C25	3,500.00	at least 250g
	Alumina	ASTM C25	1,310.00	



	Available Lime Index	ASTM C25	500.00	
	Calcium Oxide	ASTM C25	700.00	
	Iron Oxide	ASTM C25	800.00	
	Loss on Ignition	ASTM C25	550.00	
	Magnesium Oxide	ASTM C25	1,100.00	
	Moisture	ASTM C25	550.00	
	Potassium Oxide	ASTM C25	700.00	
	Sodium Oxide	ASTM C25	700.00	
	Silica	ASTM C25	1,320.00	
	Phosphorous Pentoxide, (P2O3)	ASTM C25	1,310.00	
Powder Granules	Bulk/Packed Density	ASTM C110	450.00	at least 500g
	Hq	pH Potentiometry	300.00	
	Sieve Analysis (one mesh)	ASTM C110	400.00	
	Sieve Analysis (succeeding mesh)	ASTM C110	230.00	
Gypsum (CaSO4.2H2O) and Gypsum Products,	Complete Chemical Analysis (CaSO4.2H2O, CaSO4, SIO2 and Insoluble, R2O3, CaO, MgO, SO3)	ASTM C471	4,500.00	at least 250g
	Aluminum Oxide	ASTM C471	805.00	
	Anhydrite (CaSO4)	ASTM C471	800.00	
	Calcium Oxide	ASTM C471	700.00	
	Combined Water	ASTM C471	750.00	
	Free Water	ASTM C471	500.00	
	Iron and Aluminum Oxides (mixed oxides)	ASTM C471	700.00	
	Iron Oxide	ASTM C471	805.00	
	Magnesium Oxide	ASTM C471	1,100.00	
	Purity as CaSO4.2H2O	ASTM C471	800.00	



	Silica and Insoluble Matter	ASTM C471	800.00	
	Sodium Chloride	ASTM C471	500.00	
	Sulfate/Sulfur Trioxide	ASTM C471	930.00	
Salt/Sodium	Complete Chemical Analysis (NaCl.	AOAC 925.55	3,700.00	at least 250g
Chloride	Moisture,, Water Insolubles, Ca, Mg, SO4)			1 kg sample for CCA
	Acid Insolubles	AOAC 925.55	550.00	
	Calcium	ASTM E534	700.00	
	lodine (as received)	AOAC 925.56	590.00	
	lodine (dry basis)	AOAC 925.56	750.00	
	Magnesium	ASTM E534	800.00	
	Moisture	AOAC 925.55	600.00	
	Assay, NaCl (as received)	Argentimetric Titration	590.00	
	Assay, NaCl (dry basis)	Argentimetric Titration	750.00	
	Sulfate	AOAC 925.55	550.00	
	Water Insolubles	AOAC 925.55	500.00	



Chemical/Reagen ts KOH – Caustic potash NaOH – Caustic Soda NaHCO3 – Baking Soda NaHCO3 – tartaric acid + baking powder Na2CO3 – Soda ash	Arsenic	Mercuric Bromide Stain	800.00	For powder sample - 100g For liquid sample - 100mL
	Arsenic Assay Assay Assay Assay Assay (NH3) Chloride Heavy Metals as Pb Insoluble Residue Iron pH (liquid) Specific Gravity, Hydrometer	HVG-AAS Gravimetric Titrimetry Electrometric Titration AOAC 939.02 Turbidimetric Colorimetry Gravimetric Colorimetry ASTM E70 ASTM D891	1,500.00 590.00 590.00 590.00 570.00 800.00 570.00 700.00 300.00 230.00	



	Specific Gravity, Pycnometer Sulfate	ASTM D891 Turbidimetry	350.00 700.00	
	Trace Metals	AAS (Std addition)	800.00 per element	
Bleaching Powder/ Solution, Detergents, Sodium/Calcium Hyprochloride	Available Chlorine	ASTM D2022	590.00	For powder sample - 100g For liquid sample - 100mL
,	Alkalinity	ASTM D2022	590.00	For liquid sample – at least 50mL
Acid Copper Plating Solution	Copper Sulfate	AAS/Titrimetry	800.00	at least 100mL
	Sulfuric Acid	Titrimetry	590.00	
Cyanide Copper Plating	Copper Cyanide	AAS/Titrimetry	800.00	at least 100mL
	Sodium Cyanide	Titrimetry	590.00	
Chrome Plating Solution	Trivalent Chromium	Titrimetry	590.00	at least 100mL
	Hexavalent Chromium Sulfuric Acid	Titrimetry Gravimetric	800.00 850.00	
Gold Plating Solution	Gold	AAS	800.00	at least 20mL
Nickel Plating Solution	Nickel Chloride	Titrimetry	590.00	at least 100mL
	Nickel Sulfate Boric Acid	AAS/Titrimetry Titrimetry	800.00 590.00	
Silver Plating Solution	Silver	AAS	800.00	at least 20mL



	Free Na/K Cyanide	Titrimetry	590.00	
Zinc Plating Solution	Zinc	Titrimetry	590.00	At least 100mL
	Zinc	AAS	800.00	
	Sodium Cyanide	Titrimetry	590.00	
Brass Plating Solution	Copper	AAS	800.00	At least 100mL
	Copper	Titrimetry	590.00	
	Zinc	AAS	800.00	
	Zinc	Titrimetry	590.00	
	Free Cyanide	Titration	590.00	
Low Alloy Steel, Tool Steel, High- Alloy Steel, Cast Iron, Manganese Steel	Silicon	Gravimetric	950.00	at least 100g
	Phosphorous	Alkalimetric, Acidic Molybdate	700.00	
	Molybdenum	Photometric	1,100.00	
	Molybdenum (in cast iron)	Photometric	1,295.00	
	Manganese/Nickel/	AAS	800.00	
	Copper/Chromium		per element	
Stainless Steel, Nickel, Nickel- Chromium, Nickel-Chromium- Iron Alloys	Silicon	Gravimetric	950.00	at least 100g
•	Molybdenum (for Stainless Steel) Nickel	Photometric Gravimetric	1,100.00 900.00	



	Chromium Manganese/Copper/Iron/ Cobalt	Titrimetry AAS	750.00 800.00 Per element	
Aluminum and Aluminum Alloy	Aluminum	Titrimetry	870.00	at least 100g
	Silicon	Photometric/ Gravimetric	1,100.00	
	Magnesium/Chromium/	AAS	800.00	
	Copper/Lead/Iron/Zinc/ Manganese/Nickel		Per element	
Pig Lead, White Metal-Bearing Alloys, Lead and Tin Based Solders	Lead	Gravimetric/ Titrimetric	1,050.00	at least 100g
	Tin	Titrimetry	750.00	
	Silver/Bismuth/Copper/	AAS	800.00	
	Zinc/Antimony/Iron/ Nickel		Per element	
Copper & Copper Alloy, Brasses, Bronzes	Copper	Electrolytic – Gravimetric	900.00	at least 100g
	Lead	Gravimetric	1,050.00	
	Tin	Titrimetric/ Gravimetric	450.00	
	Cadmium/Cobalt/Iron/ Manganese/	AAS	800.00	
	Nickel/Lead		Per element	
	Zinc	Titrimetric	1,500.00	
	Tin	Titrimetric	760.00	



Copper-Nickel, Copper-Nickel- Iron, Copper- Nickel-Zinc, Nickel-Copper Alloy	Copper	Electrolytic- Gravimetric	900.00	at I;east 100g
7 1110 9	Nickel	Gravimetric	900.00	
	Iron/Manganese/Cobalt	AAS	800.00 Per element	
Zinc and Zinc Alloy	Zinc	AAS	800.00	at least 100g
	Cadmium/Copper/Iron/ Nickel/Manganese/ Magnesium	AAS	800.00 Per element	
Metal (Gold/Platinum) Soft/not hard Powder form or not block	Gold	AAS	870.00	at least 5g
	Platinum	AAS	870.00	
Tin Cans, Tin Plates	Tin Coating, g/m2	Titrimetry	600.00	less than 1-kg cap- 3pcs
	Tin Coating	Coulometry	600.00	1-kg cap – 1pc



GI Sheets, Pipes, Rods, Wires, Plates Zn-coating (per area) Flat bar – P 385.00 0.5m – 1m Angle Bar - P385.00 0.5m – 1m Machine bolt (cant be done)	Weight of Zinc Coating Weight of Zinc Coating Average or Single Spot GI Sheets GI Wires Pre-coated GI Sheets GI Pipes <100 mm dia 100-150 mm dia 151-200 mm dia	Loss in weight g/m2 Stripping Method g/m2	450.00 450.00 490.00 590.00 570.00 800.00	Wire – 2m Pipe/Rod–1m Sheet/Plate- 600cm2
Glazed Ceramics/ Dinnerware	Extractable Pb/Cd	ASTM C738	1,450.00 per element	at least 6 identical pc
	Extractable Pb/Cd	GF-AAS	2,000.00 per element	·
	Extractable Pb and Cd (Combd) Extractable Pb and Cd (Combd)	ASTM C738 GF-AAS	2,500.00 3,000.00	

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	Extractable Hg only	ASTM C738	1,800.00	
	Additional Hg for Pb/Cd	ASTM C738	1,500.00	
Toys	Leachable Pb/Cd	ISO 8124-1997	1,180.00	at least 6 identical
			per element	items
	Leachable Pb/Cd	GF-AAS	1,800.00	
			per element	
	Leachable Hg(only)	ISO 8124-1997	1,800.00	
	Leachable Pb and Cd(combd)	ISO 8124-1997	2,000.00	
	Leachable Pb and Cd(combd)	GF-AAS	2,700.00	
	Additional Hg for Pb/Cd	ISO 8124-1997	1,500.00	
	Leachable Arsenic	ISO 8124-1997	1,800.00	
Pipes (uPVC,	Extractable Pb/Cd/Hg	ISO 3114-1997 (E)	5,600.00	3 pcs sample if
etc.)		(PNS 65; 1993)	per element	diameter 🗆 5 cm
				length – 0.5m
				6 pcs sample if
				diameter □ 5 cm
				length – 1m
				Sealed at one end
	Extractable Pb/Cd	GF-AAS	6,300.00	
			per element	
	Extractable Pb and Cd (combd)	ISO 3114-1997 (E)	6,500.00	
		(PNS 65; 1993)		
	Extractable Pb and Cd (combd)	GF-AAS	7,000.00	
	Extractable Hg (additional for Pb/Cd)	ISO 3114-1997 (E)	1,500.00	
		(PNS 65; 1993)		
Boiler Scale	Moisture	Tech. Method of	600.00	100-150 g
(100~150g)		Analysis by Griffin		
	Organic & Volatile Matter		590.00	
	Silica		1,320.00	



	Iron & Aluminum Oxide Lime (CaO) Magnesia (MgO) Sulfur Trioxide Chloride Phosphate		1,320.00 590.00 1,100.00 930.00 590.00 720.00	
Admixture	pH Total Solids (%wt) Density, kg/L Chloride	USP 26.2003 ASTM D2363 ASTM D1475 D1411-93	290.00 590.00 350.00 720.00	500 mL

PHYSICAL AND PERFORMANCE TESTING **LABORATORIES**

SAMPLE NAME	TEST NAME	TEST METHOD	TEST FEE (PhP)	SAMPLE REQUIREMENT
Sacks	Breaking Strength			3 pieces of whole sack per sample
	One Way	ASTM D5034	600.00	
	Other Way	ASTM D5034	600.00	
	Bursting Strength	ASTM D3786	450.00	
	Fabric Count			
	One Way	ASTM D3775	200.00	
	Other Way	ASTM D3775	200.00	
Duty Free Shopping bag	Required Test	ASTM D882		20 Bags/Size
	Tensile / Elongation Tear Strength	ASTM D882 ASTM D1004	550.00 550.00	



	Sealing Strength	ASTM D882	550.00	
	Handle Performance	ASTM D882	550.00	
	Thickness		200.00	
	Sample Conditioning	ASTM D618	1,500.00	
Perlite Insulation	Density	ASTM C303	350.00	200mm x 100mm x 50mm, 5 pcs
	Moisture content	ASTM C610 sec 11.1.7	350.00	150mm x 150mm x 50mm , 5 pcs
	Conditioning (Oven & 24 Hr. @ 23 C, 50% RH)		1,000.00	
	Flexural Strength	ASTM C203	400.00	12 in x 4 in x 1 in , 5 pcs
	Compressive Strength	ASTM C165	400.00	4 in x 6 in x ½ in , 5 pcs
PVC Pipes	Resistance to Acetone	ISO 3472	250.00	5 pcs (100mm x 25 mm)
	Resistance to H2SO4 for 14 days days @ 55 °C	ISO 3473	9,400.00	5 pcs (area / pc 45 ± 3 cm3) (for 3
			700.00	size additional)
	Longitudinal Heat Reversion Test	ISO 2505	350.00	5 pcs (L = 200 mm
	Vicat Softening Point	ISO 2507	800.00	5 pcs (L = 50 mm , W = 10 to 20mm , t= 2.4 to 6 mm) (if t= 2.4 mm , use two layers of at least t=2.4 total. Thickness)



	Water Absorption	ISO 2508	600.00	5 pcs (area / pc 50 cm2 for pipes w/ 32 mm OD or L = 5 cm and arc 5 cm for pipes with OD > 32 mm)
	Flattening Test	ASTM D2241	400.00	5 pcs. (L = 2 inches
	Resistance of External Blows (Drop Impact)	ISO 3127	1,500.00	
	Hydrostatic Test	PNS 509	1,500.00	250mm + 3x O.D + 100 mm, 5 pcs pipe
Rubber Products	Aging Test 22 h 48 h 70 h 72 h 96 h 100 h 168 h 336 h Compression Set	ASTM D573	700.00 1,500.00 2,200.00 2,250.00 3,000.00 3,100.00 6,000.00 10,500.00 1,000.00	Same as Tensile & tear Resistance Test 5 pieces ,
	Compression Set	AOTIVI DOSO	1,000.00	cylindrical disk type, 1"diameter @ 12 mm Thickness



	Density / Specific gravity	ASTM D792	350.00	50 grams , granule, pellets , solids 1mm thickness
	Durometer Hardness	ASTMD2240 ISO 868 vol.1	250.00	/1gram 2 pieces flat surface 10 x 10 cm , t=6mm min
	Tensile Strength & Elongation	ASTM D412	400.00	2 sheets , 305mm x 305mm x t mm (1.3 < t < 3)
	Tear Resistance	ASTM D624	400.00	
	Sampling Fee		150.00/ test	
	Abrasion Resistance	ASTM D4060	1,500.00	4" x 4", 1/8 "t or less, 5 pcs
Plastic Products	Chemical Immersion Test	ASTM D543	350.00	50mm L x 25.4mm W, 5 pcs
	Compression (W x H x L)	ASTM D695	400.00/ 800	½ "x ½ " x 2 , 5 pcs
	Flexural Strength	ASTM D790	400.00/ 800	5 pieces , smooth flat surface , L=16 x thickness +20mm Depth = 13mm , Width 3 to 13mm
	Water Absorption	ASTM D570	350.00	50mmL x 25.4mm W, 5 pcs



I	Tension Test	ASTM D638/	400 00/	5 pieces dumbbell
	Tension rest	D882	800	
				L=125mm to 250 mm
	Heat Deflection Temperature	ASTM D648	800.00	5 pieces, smooth flat surface, L =127mm Width=13mm, Thickness= 3 to 13mm
	Vicat Softening Point	ASTM D1525	800.00	5 pcs (L = 50 mm , W = 10 to 20mm , t= 2.4 to 6 mm) (if t= 2.4 mm , use two layers of at least t=2.4 total
	Izod Impact	ASTM D256	600.00	Thickness) L=63.5 or 60.3mm, t=3.17 to 3.4 mm, W= 12.7 mm, 10 pcs
	Charpy Impact	ASTM 179	600.00	4.0 mm x 80 mm, 10 pcs
	Hardness Test	ASTM 2240	250.00	2 pieces flat surface 10 x 10 cm , t=6mm min
1				



	Abrasion Resistance Test	ASTM D4060	1,500.00	4" x 4" 1/8"t or less 5 pcs
	Conditioning (at least 40 Hrs @ 23 +/- 2° C , 50 +/- 5 % RH)		1,000.00	
Ероху	Compression	ASTM C356	400.00	2" x2 " x 2", 5 pcs
Plastic Resin	Melting point	ASTM D2117	200.00	100 grams (granules , pellets or powder
	Melt flow Rate	ASTM D1238	600.00	100 grams (granules , pellets or powder
	Density	ASTM D792	350.00	100 grams (granules, pellets or powder
PVC Powder	Bulk Density/Apparent Density	ASTM D1895	250.00	0.5 kilograms
Particle Board	Density Block Pipe Compression Flexural Water Absorption Linear shrinkage	Philsa 106 / App.B/D	350.00 350.00 400.00 400.00 350.00 400.00	5 pcs, 6 " x 6 " 1 pipe section 5 pcs, 6 " x 6 " 5 pcs, 12 " L x 4 " W x 2 " T 5 pcs, 6 " x 6 " 5 pcs, 6 " x 6 "
Adhesive / Sealant	Peel strength	ASTM D903	400.00	10 pcs , 12 " L x 1 " W overlap by 6"
	Shear strength	ASTM D1002	400.00	10 pcs , 5 " L x 1 " W overlap by 1 "
	Sampling Fee	BS 3261	150.00	
Vinyl Tiles	Tension Test		400.00	10 pcs , 12 " x 12 "

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	Resistance Test/ chemicals Dimension Test Size Thickness Width Taber Abrasion	ASTM D4060	350.00 600.00 200.00 200.00 200.00 1,500.00	4 " x 4" , 5 pcs
Joint Filler	Compression Recovery Density Water Absorption	ASTM D505	2,200.00	2 pcs , 12" x 12"
School and Office Supplies:				
Masking / Scotch / Packaging Tape	Adhesive Strength	PNS 712	550.00	3 rolls
Glue	Adhesive Strength	PNS 1800-2006	550.00	2 jar
Rubber Band	Tensile Strength / Elongation/ Dimensional Measurements	PNS 1479	400.00 200.00	1 box or 100 pcs
Ball Point Pens & Refills	Writing Performance	ISO 12757 – 2	400.00	10 pcs.
	Drying Time Test Water resistance	PNS 558	400.00 350.00	
White Board Marker	Writing Performance	PNS 1227	400.00	15 pcs.
	Impact Resistance Heat Resistance		400.00	
	Shaft Holding Force Point Primary Erase ability		400.00 400.00	
Permanent Pen	Writing Performance	PNS 2049	400.00	15 pcs



I	Impact Resistance		400.00	
	Shaft Holding Force Point		400.00	
	Drying Time		400.00	
	Resistance to Water		400.00	
Paper Fastener	Bend Test	PNS 235	400.00	10 pcs.
Chalk	Breaking Strength	PNS 1122	400.00	25 pcs.
Pencil	Breaking Strength	PNS 1413	400.00	10 pcs.
Lead for Mechanical Pencil	Bending Strength	PNS 1471 -3 (ISO 9177-3	400.00	12 pcs. Or 1 box
Crayons	Performance Test	PNS 1224	400.00	1 box
Adhesive Tape	Adhesive Strength	PNS 712	550.00	5 rolls
PVC Electrical Tape	Exposure to Heat 113°C (168 h)	PNS: 79	6,500.00	10 rolls
'	Tension		400.00	
	Appearance		250.00	
	Peeling Off		550.00	
	Tension After heat Aging @ 100 ℃ for 4 hr.		700.00	
Crane and other Lifting Equipment	Load Testing, 50 Tons & 200 Tons	ISO 4310	2,700.00	
Burned Refractory Brick	Bulk Density	ASTM C20-Sec 12	400.00	3 pcs, 50 mm cube
	Water Absorption		350.00	3 pcs 76.2 mm cube
Concrete Interlocking Roofing Tiles	Transverse	Philsa 242	400.00	6 pcs full size
	Water Absorption		350.00	



Concrete Hollow Block	Compression	ASTM C39	800.00	5pcs /size
Concrete Cylinder	Compression		800.00	3 pcs, 152.4 mm x 304 mm with capping
Wire Rod	Tension Test Flexural/Bend Test	ASTM A370	400.00 400.00	3 pcs, 13" L 5 pcs, 12" L
Hydraulic Cement Mortar	Compression	ASTM C109	800.00	3 pcs, min. 50 mm cube
Cement Powder	Permeability Test/ Fineness of Hydraulic Cement	ASTM C204	400.00	1 kg powder cement
	Initial & Final Setting of cement	ASTM C191	800.00	
Weathermeter	Exposure test	ASTM G155	6000.00/ day	Tray size: 28" x 17.5"
	Observation		300.00/ sample	



BIOLOGICAL LABORATORY PHARMACOLOGY AND SECTION

SAMPLE NAME	TEST NAME	TEST METHOD	TEST FEE (PhP)	SAMPLE REQUIREMENT
Plant Isolates/ Food	Approximate Lethal Dose	OECD Guideline 401	7,900.00	50 g
Supplements	A 1 . (DI)		4 000 00	50
	Analgesic (Plantar)	Hargreaves Method	4,800.00	50 g
	Anti-inflammatory Test	Winter Method	4,200.00	50 g
	Diuretic Test	Lipschitz Method	3,800.00	50 g
	Acute Oral Toxicity (LD50)	OECD Guideline 401	20,000.00	500 g/1 L
Cosmetics	Preliminary Dermal Irritation	OECD Guideline 404	7,250.00	50 g
	Dermal Irritation	OECD Guideline 404	11,750.00	100 g
	Preliminary Eye Irritation	OECD Guideline 405	7,250.00	50 g
	Eye Irritation	OECD Guideline 405	11,750.00	100 g
	Dermal Sensitization	OECD Guideline 406	48,500.00	500 g/1 L
Pesticides	Acute Oral Toxicity (LD50)	OECD Guideline 401	42,500.00	1 L
	Acute Dermal Toxicity	OECD Guideline 402	52,500.00	1 L
	Dermal Irritation	OECD Guideline 404	20,000.00	1 L
	Eye Irritation	OECD Guideline 405	25,000.00	1 L
	Dermal Sensitization	OECD Guideline 406	48,500.00	1 L
Household Pesticides	Acute Oral Toxicity (LD50)	OECD Guideline 401	21,200.00	1 L
	Acute Dermal Toxicity	OECD Guideline 402	29,000.00	1 L

Note: Fees are exclusive of laboratory animals and animal feeds.



BIOLOGICAL LABORATORY MICROBIOLOGY SECTION

SAMPLE NAME	TEST NAME	TEST METHOD	TEST FEE (PhP)		SAMPLE REQUIREMENT
			Single Sample Testing	Five Sample Testing (FDA)	
Water	Bacteriological Examination A (HPC + Coliform Count)	Standard Methods for the Analysis of Water and Wastewater 21st Edition, 2005 APHA, AWWA, WEF	*980.00	**2,940.00	*At least 120 mL x 1 ** At least 120 mL x 5 Sample Submission: Mondays, Tuesdays and Wednesdays 8:00 AM – 2:00 PM
	Bacteriological Examination B (HPC, Coliform Count+ E. coli Count)		*1,580.00	**4,740.00	FIVI
	Heterotrophic Plate Count (HPC)		*500.00	**1,500.00	
	Total Coliform Count		*500.00	**1,500.00	



	E. coli Count		*1,200.00	**3,600.00	
	Pseudomonas sp. Count		*720.00	**2,160.00	
	Fecal Streptococci		*1,200.00	**3,600.00	
	Total Coliform Count and E. coli Count (Enzyme substrate)		*1,500.00	**4,500.00	
Food, Cosmetics, Extracts, Veterinary Products etc.	Aerobic/ Total/ Standard Plate Count	Bacteriological Analytical Manual, Online US Food and Drug Administration	*500.00	**1,500.00	*at least 100 g/mL x 1
	Total Coliform Count		*500.00	**1,500.00	**at least 100 g/mL x 5
	E. coli Count		*1,200.00	**3,600.00	***cans/ bottles x
	Molds and Yeast Count		*500.00	**1,500.00	5 ****cans/ bottles x 10
	Salmonella sp. Detection, Presumptive (Conventional)		*900.00	**2,700.00	10
	Salmonella sp. Detection (Rapid)		*2,000.00	**2,700.00	
	Staphylococcus aureus Count		*1,200.00	**3,600.00	
	Pseudomonas sp. Count		*720.00	**2,160.00	



	Commercial Sterility		***1,570.00	****4,400.00	
Plant Extracts, Cosmetics, Disinfectants etc.	Antimicrobial Activity (E. coli, S. aureus, P. aeruginosa, S. typhimurium, B. subtilis)	The US Pharmacopeia 30 NF 25, 200	7		at least 50 mL Customer will provide cultures not available in the laboratory. Some of these cultures could be purchased from EBD-ITDI.
	Antifungal Activity (S. cerevisiae, C. albicans, A. niger, F. monoliforme, T. mentagrophytes, T. rubrum, Microsporum canis)		500		



ISSUANCE OF FORMULA OF CONVERSION (FOC) CERTIFICATE

FRONTLINE	CLIENT/S	PROCEDURES	RESPONSIBLE PERSON	TIME	REQUIREMENTS
Issuance of Formula of Conversion (FOC) Certificate	Manufacturing company (exporter)	Validation of technical service request	Laboratory Head/ designated validator	30 mins	Request for Technical Services FOC Form; pertinent documents subm (i.e. certified material usage, production data, description and flow chart of manufacturting process); samples of raw materials and products
		Assignment of FOC to analyst	Laboratory /Section Head	15 mins	Request for Technical Services FOC Form & other documents submitted by customer; workload of laboratory analysts
		Conduct of Plant Visit	Analyst & Laboratory Head or designated staff to accompany analyst	1 day	Request for Technical Services FOC Form & other documents submitted by customer; plant visit schedule/permit
		Evaluation/computation of proposed FOC	Analyst	within the day	Production/manufacturing data; process description; samples of raw materials and products



FRONTLINE	CLIENT/S	PROCEDURES	RESPONSIBLE PERSON	TIME	REQUIREMENTS
		Preparation of FOC Report	Analyst	within the day	Request for Technical Services FOC Form; computations
		Review/Signing of FOC Report	Laboratory Head & Section Head	within the day	Request for Technical Services FOC Form; FOC Report signed by Analyst; computations
		Finalization/Signing of FOC Report	Division Chief	within the day	FOC Report signed by Analyst; Section Head & Laboratory Head
		Releasing of FOC Report	RRU Staff	15 mins	Signed FOC Report; customer's copy of Request for Technical Services FOC Form
		Report Filing & Management	RRU Staff	15 mins	STD's copy of FOC Report, Request for Technical Services FOC Form, STD's database of customers' requests/services



STANDARDS AND TESTING DIVISION

PROCEDURE FOR FILING COMPLAINTS

Complaints may be filed by a customer by any of the following two methods:

- The customer asks for the Survey/Complaint Form from the Receiving and Releasing Unit.
 He fills up the form and drops the accomplished form in the STD Suggestion box placed at
 the Front Lobby of the STD building.
- 2. The customer writes to the STD Chief describing in full his/her complaint/s. All letters of complaint may be sent by regular or electronic mail, fax or in person at the Office of the Chief, Standards and Testing Division, DOST Compound, Bicutan, Taguig City.

Complaint Resolution

A. For not meeting the due date

- 1. The STD staff who receives a complaint from a client requests the following information:
 - a. the name, company and contact address or telephone or fax number of the person making the complaint;
 - b. the Request Reference Number, if complaint pertains to a particular sample;
 - c. the nature and description of the complaint.
- 1. STD addresses all customer complaints through the following methods of resolution:
 - a. When a request for technical service has not been given timely placement on the laboratory work schedule, the Laboratory Head concerned will:
 - If possible, reschedule the work for an earlier date;
 - If rescheduling is not possible, explain the laboratory workload to the customer and assure the customer that the laboratory will complete the work as soon as possible.
 - b. When the laboratory has not completed work on time, the Laboratory Head will:
 - Determine the due date and the date of reporting;

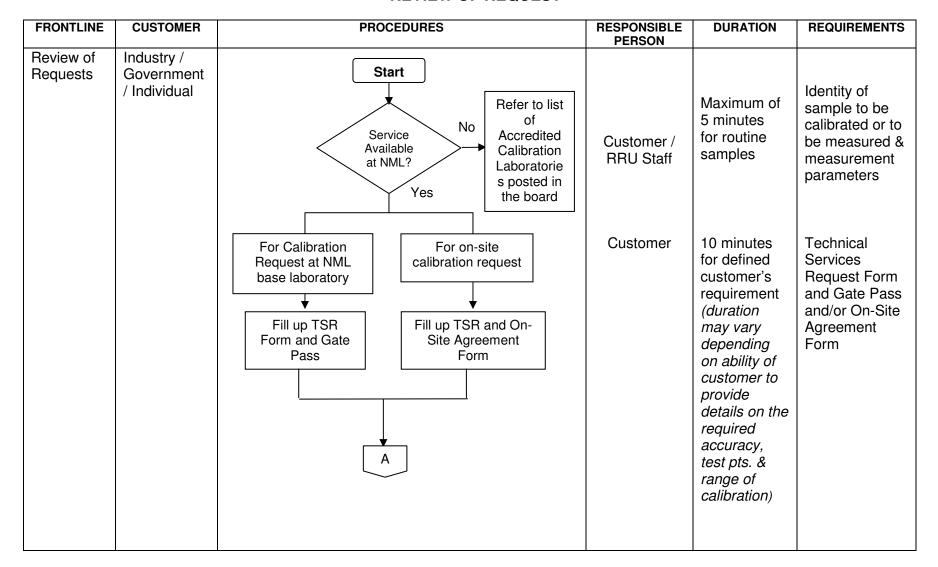


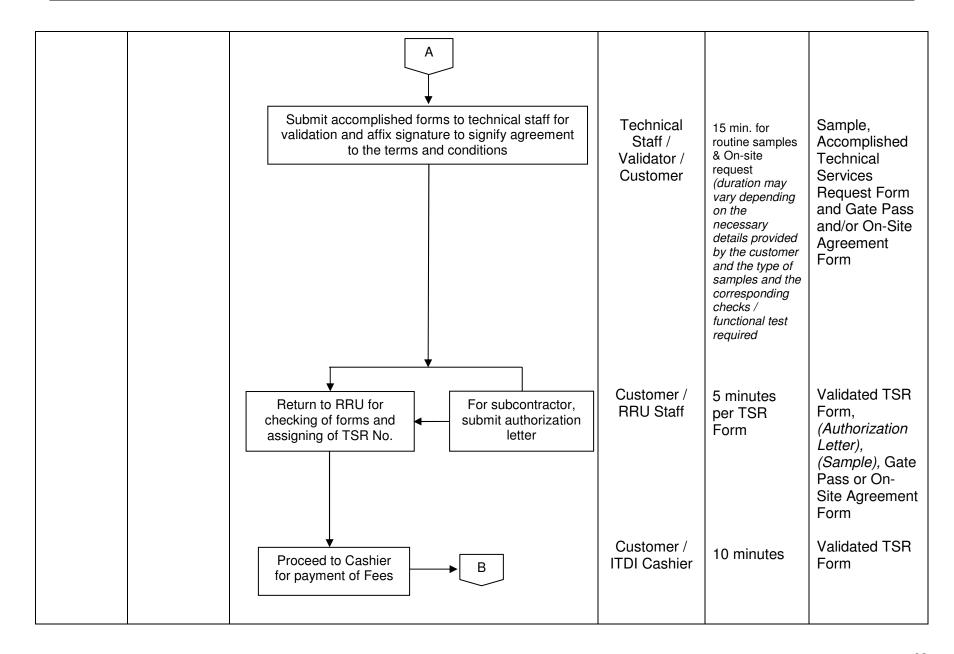
B. For non-conforming testing service/work

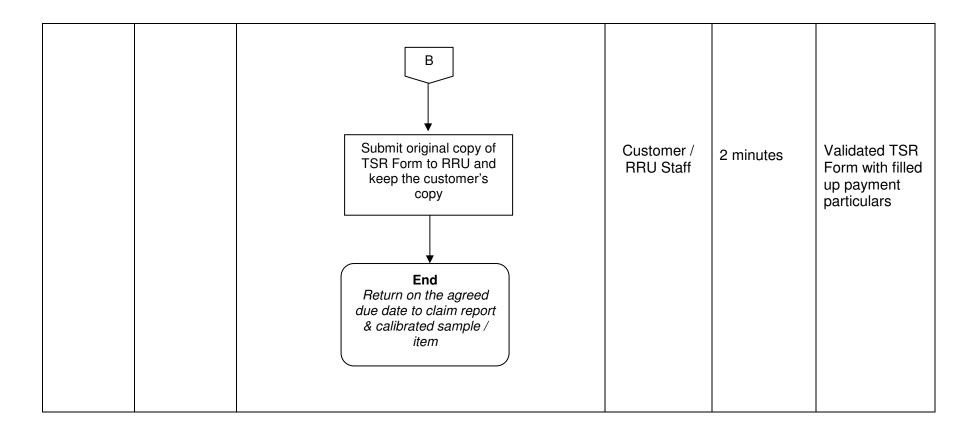
- 1. Whenever a complaint of non-conforming work is received, the Laboratory Head immediately evaluates the significance of the complaint.
- 2. If there is a high significance of the complaint, necessary correction/s are made follows:
 - The Laboratory Head immediately stops an on-going work and may order resumption of work only when correction/s have been undertaken.
 - Where the Test Report had already been released to the customer, the Laboratory Head and the Division Chief decide if there is a need to perform a re-test, amend and invalidate the Test Report.
- 3. If there is a need for the above action/s, the Division Chief sends a written notice to the customer. The notice shall include:
 - a. the reason for the re-test, amendment or invalidation of the Test Report;
 - b. the identity of the Test Report for revision;
 - c. a request to recall the Test Report for revision;
 - d. a statement that all revision of test reports and all re-tests will be provided without charge:
 - e. a statement that it is the customer's option to decide whether or not to revise the Test Report

NATIONAL METROLOGY LABORATORY

REVIEW OF REQUEST







RELEASING OF CALIBRATION CERTIFICATES / REPORT AND CALIBRATION ITEM

FRONTLINE	CUSTOMER	PROCEDURES	RESPONSIBLE PERSON	DURATION	REQUIREMENTS
Releasing of Certificates / Reports and calibrated items	Industry / Government / Individual	Proceed to Releasing window Present Customer's copy of the TSR Form and / or Gate Pass, submit a notarized Affidavit of Loss	Customer	5 min.	Customer's Copy of TSR and Gate Pass for base lab. calibration or On-site agreement form for on-site calibration; Notarized affidavit of loss for the lost customer's copy of TSR ID of person who brought
		Person authorized to claim Report? Yes No Submit authorization letter	Customer / RRU Staff	5 min.	
		Calibration Certificates / Test Report and / or sample released to Customer End	Customer / RRU Staff	10 min. per report for on-site calibration report and 15 min. per sample for base lab. Calibration (duration may vary depending on type of sample & extent of inspection required	the sample / instrument otherwise an Authorization Letter Calibration Certificate, Test Report, TSR, Labeled sample / instrument



NATIONAL METROLOGY LABORATORY

TEST METHOD AND TEST FEES:

FORCE AND PRESSURE CALIBRATION

NO.	ITEM NAME	TEST METHOD	TEST FEE
1	Deadweight Pressure Gauge Tester / Pressure Balance		
	Performance Testing	Based on Fall Rate, Friction and Eccentricity	1,540.00
	Piston Diameter Measurement (per piece)		500.00
	Deadweight - Mass Measurement (Stainless Steel; per pice)		250.00
	Deadweight - Mass Measurement (Other Materials; per pice)		200.00
2	Pressure Calibrators / Transmitter / Transducer / Module / Vacuum Calibrator / Digital Manometer / Digital Manometer (10 test points per range)		

Note: All fees are subject to change without prior notice.

Frontline Service: National Metrology Laboratory Force and Pressure Calibration Test Fees



	Absolute / Gauge Pressure (0-5MPa x 0.001MPa resolution) Negative Pressure (10mbar - 1000mbar)	4,790.00
	0-500MPa Gauge Pressure	4,700.00
	additional test point	500.00
3	Pressure Test Gauge (10 test point per range)	
	Absolute / Gauge Presure (0 - 5 Mpa x 0.001 Mpa resolution)	2,590.00
	0 - 500 Mpa Gauge Pressure	2,350.00
	Additional test point	330.00
4	Pressure Gauges (Accuracy > 1%)	750.00
5	Sphygmomanometer (Aneroid and Non-automated)	750.00



MASS CALIBRATION

NO.	ITEM NAME	TEST METHOD	TEST FEE			
Calib	Calibration of Test Weights					
1	Test weights Class E2 (per piece)	OIML Standard				
	1mg to 200g		840.00			
	over 200g to 5kg		1,140.00			
2	over 5kg to 10kg Test weights Class F1 (per piece)	OIML Standard	1,260.00			
	1mg to 200g		300.00			
	over 200g to 5kg		510.00			
	over 5kg to 10kg		760.00			
3	Test weights Class F2 (per piece)	OIML Standard				
	1mg to 200g		300.00			
	over 200g to 5kg		510.00			
4	over 5kg to 10kg Test weights Class M1 (per piece)	OIML Standard	760.00			
	1mg to 200g		200.00			
	over 200g to 5kg		300.00			
	over 5kg to 10kg		350.00			
5	Test weights Class M2 (per piece)	OIML Standard				
	1mg to 200g		200.00			
	over 200g to 5kg		300.00			
	over 5kg to 10kg		350.00			
6	Test weights Class M3 (per piece)	OIML Standard				
	1mg to 200g		200.00			
	over 200g to 5kg		300.00			
7	over 5kg to 10kg Cast Iron		350.00			
,	1mg to 200g		200.00			
	over 200g to 5kg		300.00			
	over 5kg to 100kg		350.00			
	over 100kg to 1200kg		500.00			
Testi	Testing of Weighing Instruments					
	Special Accuracy I		1,180.00			
HighAccuracy II			930.00			
	840.00					
	Ordinary IIII		340.00 20.00			
For e	For every tonne thereafter in excess of 1 ton					

Note: All fees are subject to change without prior notice.



FORCE STANDARD

NO.	ITEM NAME	TEST FEE
1	Durometer (Type A; 5 test points per range)	600.00
2	Gram Gauge (5test points range)	980.00
3	Push Pull Gauge (5 test points range)	
	0 – 20 kgf Above 20 kgf	1,400.00 1,960.00
4	Testing Machine / compression Machine / Tensile / UTM (5 test points per range)	1,960.00
	Additional test point	490.00
5	Torque Wrench (capacity up to 25N m; 5 test points per range)	1,540.00
	Two directions	2,31.00

Note: All fees are subject to change without prior notice.



TEMPERATURE AND HUMIDITY STANDARDS

INSTRUMENT	TEMPERATURE / RH RANGE	TYPICAL NO. OF TEST POINTS	CALIBRATION FEE
Thermocouples (As new)	-20°C to 1000°C	6	3,500.00 + 750.00 (per additional test point)
Dry Block Calibrators	-20°C to 1000°C	6	3,500.00 + 750.00 (per additional test point)
Electronic Hygrometers / Thermo- Hygrometers	30% RH to 70% RH	2	980.00
Enclosure Testing (Ovens, Incubators, Wtaer Bath, Furnaces, etc.)	-20°C to 1000°C	1	2,100.00 (per test point)
Non-Contact Thermometers	0°C to 500°C 500°C to 1000°C 1000°C to 1200°C	3 3 3	2,100.00 3,500.00 5,390.00

Note: All fees are subject to change without prior notice.



PHOTOMETRY STANDARD

NO.	EQUIPMENT	TEST FEE
1	Illuminance Meter	2,000.00
2	Luminous Intensity Standard Lamp	3,000.00
3	Luminous Flux Standard Lamp	3,000.00

Note: All fees are subject to change without prior notice.

COMPLAINTS PROCEDURE

1. Introduction

This procedure covers the resolution of complaints received from customers or other parties.

2. Purpose

The purpose of the customer complaint resolution system is to ensure that:

- 2.1.1 Customer complaints are resolved quickly and effectively;
- 2.1.2 Services provided to the customer are the highest quality possible.

3. Responsibility and Authority

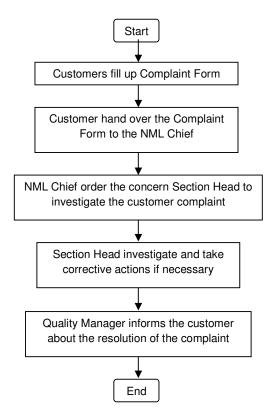
- 3.1 The NML Chief
 - 3.1.1 Receive complaints;
 - 3.1.2 Orders the investigation of customer complaints, and the initiation of remedial and corrective actions to resolve customer complaints.
 - 3.1.3 Informs customers affected by the recall of non-conforming calibration work.
- 3.2 The Section Head
 - 3.2.1 Determines the details of the complaint, e.g. root cause, magnitude, extent and significance of all events that gave rise to the complaint
 - 3.2.2 Takes remedial action to resolve the complaint.
 - 3.2.3 Initiates recall of non-conforming calibration work.
- 3.3 The Quality Manager
 - 3.3.1 Informs the customer of the resolution of the complaint.

4. Procedure

- 4.1 Customer complaints initial contact.
 - 4.1.1 The customer fills-up Complaint Form confidentially. (Use F4.8 Complaint Form for this purpose.)
 - 4.1.2 The customer hand over the Complaint Form to the NML Chief or his Officer-In-Charge in his absence.
- 4.2 Customer complaints resolution
 - 4.2.1 The NML Chief orders the concerned Section Head to conduct an investigation of the customer complaint, initiation of remedial and corrective actions to resolve the customer complaint, and the recall of calibration reports, if warranted.

4.2.2 The Section Head

- 4.2.2.1 Determines the details of the complaint, e.g. root cause, magnitude, extent, and significance of all events gave rise to the complaint;
- 4.2.2.2 Takes remedial action to resolve the complaint per OM 4.11: Corrective Action, and OM 4.9: Control of Non-Conforming Calibration Work.
- 4.2.2.3 Initiates recalls, if any per OM 4.9: Control of Non-Conforming Calibration Work.
- 4.2.2.4 Records the resolution of the complaint in the complaint form.
- 4.2.3 The Quality Manager informs the customer of the resolution of the complaint.



5. Records

5.1 Complaint Form



Republic of the Philippines Department of Science and Technology Industrial Technology Development Institute NATIONAL METROLOGY LABORATORY



DOST Compound, General Santos Avenue, Bicutan, Taguig City, Metro Manila Tel. Nos.: 8372071 to 82 (DOST Trunklines) Telefax No.: 8373167; 8372071 loc. 2272

Form No. F4.8 Version 1 Page 1 of 1

COMPLAINT FORM

(Fill-up privately, fold to hide conten	ts and hand over to the NML Chief)
Date of Filing:	
Name of Complainant:	Signature:
Designation:	
Company Name:	
Address:	
Contact Number:	
E-Mail:	
SPECIFICS OF COMPLAINT: (Back of page	e may be used)
FINDINGS:	
RESOLUTION:	
Complaint acted upon by:	Approved by:
Date:	
() Customer informed of resolution By:	

Prepared by: MMR	Approved by: AVK
Date:	Date:



Republic of the Philippines Department of Science and Technology Industrial Technology Development Institute NATIONAL METROLOGY LABORATORY



DOST Compound, General Santos Avenue, Bicutan, Taguig City, Metro Manila Tel. Nos.: 8372071 to 82 (DOST Trunklines) Telefax No.: 8373167; 8372071 loc. 2272

> Form No. F4.10 Version 1 Page 1 of 1

NML SUGGESTION / OPPORTUNITY FOR IMPROVEMENT FORM

Improvement Area:	Time Frame:
Objective:	
Specifics of Improvement/Suggestion:	
Person making suggestion:	
Person responsible for considering suggestion (LAB Head/N	NML Chief)
	,
Action Taken:	
Performed by:	Date: / /
Verified by (LAB Head/NML Chief)	Date://
Action Closed by: (Quality Manager)	

NML CUSTOMER FEEDBACK FORM

NML Customer Feedback Form You're opinion has weight! Please rate your experience with us. Technical Service Request Number/s:
Overall, how would you rate our service?
Excellent Very Satisfactory Fair Poor
Courteousness and Professionalism of NML Staff
Promptness
Quality of Calibration/Testing Service
Premises
Comments and Suggestions:
National Metrology Laboratory Metrology Building, DOST Compound, Gen. Santos Ave., Bicutan, Taguig City, Philippines 1631 Telefax: +63 2 837 2071 to 82 local 2272; Email: info@nml.gov.ph, nmlphil@yahoo.com Website: http://www.nml.gov.ph



ADVANCED DEVICE AND MATERIALS TESTING LABORATORY

SAMPLE RECEIVING

FRONTLINE	CLIENT/S	PROCEDURES	RESPONSIBLE PERSON	TIME	REQUIREMENTS
Sample Receiving	Company/ Institution/ Individual	Start Fill up the Prescribed Form	Client	5 minutes	Technical Service Request Form;
		Is the Service Available in ADMATEL?	Laboratory Head	15-30 minutes (Duration may vary depending on the details of request)	Accomplished Request Form; Specific details of the request;
		Receive sample, Indicates the Fees and Due Date	Laboratory Head	2 minutes	Entry Pass for the sample; Reference no. for Service Request Form; Sealed plastic bag for the sample;
		Pay fees/charges Secure copy of OR	Customer Service Personnel	20 minutes	Approved Service Request Form with Reference no.; Copy of OR;
		Submit copy of O.R. and Approved Service Request Form to Client End	Customer Service Personnel	2 minutes	Copy of OR and Approved request form



ADVANCED DEVICE AND MATERIALS TESTING LABORATORY

RELEASING OF REPORTS AND SAMPLES

FRONTLINE	CLIENT/S	PROCEDURES	RESPONSIBLE PERSON	TIME	REQUIREMENTS
Releasing of Reports and	Company/ Institution/	Start	Client	1 minute	Approved Service Request Form with ref. no.
Samples	Individual	Submission of Approved Request Form to Customer Service			
		Provide client with Customer Satisfaction Form	Customer Service	5 minutes	Customer Satisfaction Form
		Release of Report of Analysis and Client Sample End	Laboratory Head	5 minutes	Accomplished Customer Satisfaction Form; Approved Service Request Form with ref. no.; Exit Pass for Sample;



ADVANCED DEVICE AND MATERIALS TESTING LABORATORY

SCHEDULE OF FEES AND CHARGES FOR TESTING AND ANALYTICAL SERVICES

	Type of Service	Cost/sample (PhP)
1	Auger Electron Spectroscopy (AES)	
	Element Identification (Qualitative & Quantitative Analysis)	12,000.00
	Surface Map Analysis (1 view, 4 elements)	26,000.00
	Line Analysis Measurement (1 line, 4 elements)	23,000.00
	Depth Profile Analysis (up to 0.1 um depth, 4 elements)	32,000.00
2	Time of Flight Secondary Ion Mass Spectroscopy (TOFSIMS)	
	Surface Spectroscopy	13,000.00
	Surface Spectroscopy w/ mapping	18,000.00
	Depth Profiling (4 elements or compounds)	23,000.00
3	Focused Ion Beam-Field Emission Scanning Electron Microscopy (FIB-FESEM) Scanning Electron Microscopy	
	- Imaging	10,000.00
	- Imaging w/ EDS Analysis	14,000.00
	- Imaging w/ EDS Mapping	19,000.00
	Focused Ion Beam Sectioning	18,000.00
	TEM Lamella Preparation	22,000.00
	STEM Imaging Analysis	17,000.00
4	FTIR with Microscope	
	Materials characterization/ Identification	5,000.00
	Materials characterization/ Identification w/ imaging	6,500.00
5	Differential Scanning Calorimetry (DSC)	
	Tg/ heat capacity/ Tm/ heat of fusion/degree of curing	3,000.00

6	Thermogravimetry- Differential Thermal Analyzer (TG-DTA) Thermal properties: % weight loss/oxidative degradation / stability / % residue	3,000.00
7	Optical Microscope	
	External visual inspection/Microscopic observation	2,000.00
8	Cutter, Grinder & Polisher and Stereomicroscope	
	Cross-sectioning (Cutting, Mounting, Grinding, Polishing and Optical Microscopy)	3,800.00
9	Draft/Fume Hood and Stereomicroscope Decapsulation	3,800.00

FRONTLINE SERVICES

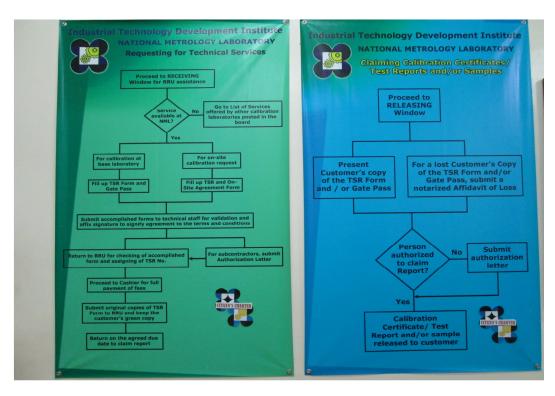
Standards and Testing Laboratory





FRONTLINE SERVICES

National Metrology Laboratory







ITDI CUSTOMER SATISFACTION SURVEY FORM

		Tel.	NOS. 031-2	http://www.itdi	ax Nos.: 837-3167; 837-6150 dost.gov.ph
CUSTO	OME	R S	ATISF	ACTION	SURVEY FORM
Kindly provide us with an hone serve you better in the future:	st eva	aluati	on of t	ne service	s received from ITDI and its staff in order to
Name of Company/School:					
2. ITDI Services rendered: ()	Tec		ion al Assis specif		() Training Coordination () Project Monitoring () Others
2 Disease and the second of	nco o	FITD	Leonie	oc hy	4.0
Please rate the overall performa checking the number that best e criteria:				-	Comments/suggestions on how to improve our services:
checking the number that best e				owing	00
checking the number that best e	xpres	ses t	he follo	owing	-
checking the number that best ecriteria: a. Quality of Results	xpres	ses t	he follo	owing	-
checking the number that best ecriteria: a. Quality of Results (reliable, accurate, relevant)	xpres	ses t	he follo	owing	-
checking the number that best ecriteria: a. Quality of Results (reliable, accurate, relevant) b. Timeliness of Result/s c. Staff/Researcher	xpres	ses t	he follo	owing	-