



GOVERNMENT CHEMIST LABORATORY AUTHORITY

ISO 9001:2015 CERTIFIED

PRICE LIST

5th Edition

DOCUMENT CONTROL AND APPROVAL

1	Document Name	PRICE LIST
2	Document Number	GCLA/P/7
3	Version Reference	1.0
4	Approved by	Board of Directors
5	Approval Date	31/01/2022
6	Document Owner	Director, Corporate Services

NB: The current and controlled document shall be available in the Network Server.

**GOVERNMENT CHEMIST
LABORATORY AUTHORITY**

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FOREWORD

This Reviewed Price List has been prepared in order to provide guiding costs for samples and/or exhibits submitted to Government Chemist Laboratory Authority (GCLA) for testing and/or analysis. It also provides guiding costs for consultancy, training and research services offered by GCLA to other institutions.

The price list review objective and strategy aims at affordable costs, increasing number of samples/services at the market price which will facilitate provision of high quality and cost effective laboratory and regulatory services to GCLA customers and the general public. The costs on laboratory services delivered are relatively low as compared to similar institutions offering the same services.

We shall continually adhere to our core values and review the internal processes when need arise to ensure efficient and cost effective services and affordable services to our customers and the public at all levels.

We request our esteemed customers to pay full charges at the time of submitting samples as a courtesy of good working relations. The results shall be delivered upon full payments of analysis charges.

This price list has the approval of the Board of Directors and shall be adhered to implicitly.



Dr. Fidelice M.S. Mafumiko
CHIEF GOVERNMENT CHEMIST

ABBREVIATIONS

ASTM	American Standard for Testing Materials
BOD	Biochemical Oxygen Demand
COD	Chemical Oxygen Demand
FOB	Freight on Board
FTIR	Fourier Transform Infra-Red
FTNIR	Fourier Transform Near Infra-Red
GC	Gas Chromatography
GCLA	Government Chemist Laboratory Authority
GC-MS/MS	Gas Chromatography Mass Spectrometer/Mass Spectrometer
LC-MS/MS	Liquid Chromatography Mass Spectrometer/ Mass Spectrometer
HPLC	High Performance Liquid Chromatography
HMF	Hydro Methyl Furfural
ICUMSA	International Commission for Uniform Methods of Sugar Analysis
TLC	Thin Layer Chromatography
UV-VIS	Ultra Violet Visible Spectroscopy
AAS	Atomic Absorption Spectrometer
ICP-OES	Inductively Coupled Plasma - Optical Emission Spectrometer
DNA	Deoxynuclei Acid
PCR	Polymerase Chain Reaction
POPs	Persistent Organic Pollutants
EXRF	Energy Dispersive X – Ray Fluorescence
XRD	X – Ray Diffraction
OSA4	On Site Analyzer

1.0 INTRODUCTION

This price list is a guide document to customers for testing and analysis charges on samples and/or exhibits submitted to GCLA. These samples and/or exhibits include but not limited to food, pharmaceuticals, traditional medicines, chemicals, occupational and environmental samples, forensic, toxicology and DNA samples. It also provides charges for consultancy, training and research services offered by GCLA to other institutions.

This price list is the fifth edition after its fourth revision conducted in 2015. This fifth edition price list has been prepared in consideration of current economic frameworks, customer views, technology changes, methodology changes, competitors, cost and taxes of equipment, instruments, materials and chemicals and operational costs. The charges on services delivered are competitive as compared to those of other institutions offering similar laboratory analytical services.

The price matrix has been set in US Dollars and its equivalencies in Tanzania Shillings and shall be calculated on the Bank of Tanzania exchange rate basis prevailing on the date of service agreement. The cost of our services depends on the type of samples and or exhibits and parameter requested. It should be remembered that all services priced in this list are Value Added Tax (VAT) exclusive.

Express Services shall be charged double the quoted prices. Customers using our services regularly are invited to discuss Service Level Agreement as stipulated in our Client Services Charter.

2.0 VISION, MISSION AND CORE VALUES

2.1 Vision

To become a reputable world - class analytical laboratory for executing health, social well - being and environmental interventions.

2.2 Mission

To provide quality and cost-effective laboratory and regulatory services to the Government, Institutions and the general public for the purpose of safeguarding human health and the environment.

2.3 GCLA Core Values

In pursuit of the provision of quality services, GCLA shall be guided by the eight core values, which are:

2.3.1 Quality Service Delivery

We believe in excellent service delivery and customer satisfaction. We will employ resources at our disposal in the pursuit of professional and quality service delivery. We will remain responsive to client's needs and demands. GCLA's name in the market will be synonymous with quality, responsiveness and excellence.

2.3.2 Moral and Ethical Practices

We will practice in accordance with the set code of conduct, rules, regulations and acceptable behavior in our given professions.

2.3.3 Professionalism

We believe in excellence and professionalism in our endeavour to serve and preserve life. This is a multi-professional dimension.

2.3.4 Accountability

We believe in being responsible and accountable for our actions.

2.3.5 Team Spirit

We believe in the team spirit that shall sustain efficiency and effective service delivery. Contribution in a team will be highly encouraged and valued.

2.3.6 Diversity

We believe in diversity. Our policies will reflect the belief of equality and equity in offering an environment for individuals of different cultural backgrounds, education, religion, tribe and gender to work in their professions and achieve job satisfaction.

2.3.7 Transparency

We believe in sharing information both within and outside the organization. We will endeavor to recognize participatory decision-making. We will communicate with our customers and stakeholders proactively and responsively.

2.3.8 Quality of working

We believe in providing quality-working life. We shall create a working environment conducive to the needs of our staff as they affect their work as well as their social lives.

3.0 FUNCTIONS OF GCLA

The core function of GCLA is provision of laboratory analytical services to: facilitate forensic investigations to enhance justice and rule of law; ascertain safety and quality of agricultural, traditional and alternative medicine and industrial products; facilitate treatment on cases involving laboratory analysis for sexual ambiguity and sibling testing for kidney transplanting; address society concerns on matters related to paternity, heritage, disaster victim identification and accidents.

Furthermore, the Authority is a sole regulator of industrial and consumer chemicals in Main land Tanzania to ensure the safe use of chemicals in order to minimize adverse effects to health and the environment. Also, GCLA has the responsibility of regulating Human DNA services to ensure the analytical and research results are only used for the intended purposes. In addition, GCLA has a responsibility to regulate chemical, forensic and DNA Laboratories to ensure that laboratories are operated and managed by qualified persons. Moreover, GCLA is also mandated to operate National Poison Control Center (NPCC) which coordinates poisoning incidences and provision of information related to management of poisons in the country.

4.0 FEES AND CHARGES

Our Customers are required to pay full fees in respect of the services regulated under the Government Chemist Laboratory Authority Act, Act No.8 of 2016. In addition, fees and charges paid shall be paid in Tanzania Shillings or US dollar equivalent to the amount of Tanzania Shillings or any other convertible currency equivalent to the amount payable in Tanzania Shillings.

The price matrix has been set in US dollars. This will enable the Authority to afford costs of purchasing laboratory equipment and instruments, chemicals, reference standards and consumables needed for laboratory analysis and services of laboratory equipment and instruments which are all purchased in US dollars. Moreover, the Board of Directors may upon the advice of the Chief Government Chemist, exempt, change or vary fees and charges in force at any time.

5.0 APPROPRIATION OF FEES AND CHARGES

Fees and charges paid shall be collected and appropriated by the Authority. In addition, the Authority may appoint an agent or any Local Authority within the area to be a collecting agent of the fees and charges paid.

6.0 SAMPLING COST

- (a) The cost for less than 10 samples is 150 US dollars, plus the transport cost and per-diem of the sampling officer doing the work with respect to the number of days.

- (b) The cost for more than 10 samples is 200 US dollars, plus the transport cost and per-diem of the sampling officer doing the work with respect to the number of days
- (c) The cost for postmortem samples is 200 US dollars, plus the transport cost and per-diem of the sampling officer doing the work with respect to the number of days

7.0 SAMPLING CONTAINERS / BOTTLES

The prices for different types of sampling bottles/containers will be borne by the client.

8.0 RESEARCH SAMPLES

The research samples shall include but not limited to:

- (a) Raw samples for full analysis shall be charged as per price list matrix.
- (b) Raw samples brought to GCLA for full analysis and require the participation of external analyst shall be charged the normal price plus 25% extra charges.
- (c) Processed samples (analytes) for instrumental analysis shall be charged 50% of the normal prices depending on the laboratory equipment or instrument to be used.
- (d) Collaborative research charges will depend on a bilateral agreement between parties involved.
- (e) For more than 100 samples brought by regular customers to GCLA for analysis, the Service Level Agreement is encouraged.

9.0 TRAINING SERVICES

Training Services for personnel from Industries shall be charged at the rate of 100 US dollars per person per day. Training offered to other institutions will be charged depending on the type and the course content and the agreement between the parties involved.

10.0 COST OF CONSULTANCY SERVICES

The rates of the Consultancy Services shall be:

- (a) Local activity/project rate shall be as follows:
 - (i) 100 US dollars per day for Junior staff
 - (ii) 200 US dollars per day for Intermediate staff
 - (iii) 300 US dollars per day for Senior and above staff
- (b) International activity/project at the rate of 500 US dollars per day

11.0 EXPERT ADVICE

11.1 Translation of Material Safety Data Sheet (MSDS) into Kiswahili Language

The charges for Translation of Material Safety Data Sheet (MSDS) or Product Data Sheet (PDS) in Kiswahili Language shall be 2 US Dollar per each MSDS.

11.2 Expert Advice

For matters requiring expert advice, the charges shall range from 20 to 300 US dollars depending on the package of services.

12.0 EMERGENCIES

Charges for emergency services will be charged depending on the actual cost incurred to restore the situation and invoiced accordingly.

13.0 FAST TRACK SERVICES (EXPRESS)

The Authority provides fast track / express services which will be charged twice of the normal price.

14.0 SUBSIDIZED PRICE FOR TRADITIONAL MEDICINES

The Authority provides laboratory analysis of traditional medicines at subsidized price to low income Traditional Health Practitioners so as to sensitize the public on the appropriate production and use of safe traditional medicines. The subsidized price is given under special conditions after receiving approval and recommendation from the Traditional and Alternative Medicines Registrar or District Coordinators.

- Note:** i) Application forms for subsidized price can be collected from the Traditional and Alternative Medicines Council or to the District Coordinators.
- ii) Any Traditional Health Practitioners who provides false information commits an offence and shall be subjected to payment of full analysis charges.

15.0 PRICE LIST REVIEW

This price list shall be reviewed at any time deemed appropriate by the Board of Directors.

COST OF ANALYSIS.

Types	Matrix	Parameter	Price (USD)		
FOOD SAMPLES	Non Alcoholic Beverages	Physical examination	10		
		pH	10		
		Acidity	20		
		Sugar content	20		
		Preservative each	30		
		Sweetener	30		
		Carbon dioxide	15		
		Food colour	30		
		Metals each by AAS	40		
		Metals each by ICP-OES	50		
		Total solids	20		
		Microbiological examination			
		Total Plate count	15		
		Coliforms count	15		
	Escherichia coli spp	20			
	Staphylococci spp	20			
	Fermented Products	pH	10		
		Total acidity	20		
		Fixed acidity	20		
		Volatile acidity	20		
		Flavour by LC-MS/MS	100		
		Bitterness	30		
		Carbon dioxide	15		
		Sugar content	20		
		Tanins	12		
		Free sulphur	15		
		Specific gravity	10		

		Metals each by AAS	40
		Metals each by ICP-OES	50
		Ash content	30
		Carbon dioxide	15
		Alcohol content by Refractometer	25
		Alcohol content by GC	60
		Preservatives each	40
		Total soluble solids	15
		Starch	20
		Microbiological examination	
		Total viable aerobic count	15
		Coliforms count	15
		Escherichia coli spp	20
		Staphylococci spp	20
		Salmonella spp	20
		Yeast and moulds	20
		Sulphate reducing bacteria	20
		Acetic acid bacteria in 100ml	20
		Lactic acid bacteria in 100ml	20
	Dairy and Dairy Products	Physical examination	10
		Moisture content and Volatile matter	20
		Milk fat	20
		Curd	20
		pH	10
		Acidity	20
		Solubility	10
		Butter fat	20
		Water content	20
		Ash content	30

FOOD SAMPLES	Lactose content	30
	Butter salt	20
	Metals each by AAS	40
	Metals each by ICP-OES	50
	Protein	40
	Casein	40
	Antibiotic residues by HPLC	80
	Antibiotic residues by LC-MS/MS	100
	Pesticide residues by GC	80
	Pesticide residues by GC-MS/MS	100
	Total solids	20
	Non solid fat	15
	Mycotoxins by HPLC	80
	Mycotoxins by LC-MS/MS - GC-MS/MS	100
	Preservative each	30
	Phosphate test	30
	Colouring matter	30
	Albumin test	15
	Freezing point	15
	Sugar milk	30
	Fat acid profile by GC	80
	Fat acid profile by GC-MS/MS	100
	Fat acid profile by FTNIR	50
	Refractive index	15
	Microbiological examination	
	Coliforms	15
	Staphylococcus aureus	20
Escherichia coli spp	20	
Salmonella spp in 25g	20	

		Shigella spp in 25g	20
		Total viable aerobic count	15
Coliforms		15	
Yeast and moulds		20	
Enterobacteriaceae		20	
Somatic cell test		30	
Sugar and Honey		Physical exam.	10
		Moisture by Air Oven	15
		Moisture by Refractometer	30
		pH	10
		Polarization	30
		Reducing sugar	50
		Sulphur Dioxide	50
		Colour (ICUMSA) by UV - Vis	30
		Total ash	30
		Conductivity ash	30
		Metals each by AAS	40
		Metals each by ICP-OES	50
		Hydroxymethylfurfural (HMF)	50
		Diastase activity	30
		Water insoluble matter	20
		Total Nitrogen	40
		Proline	40
		Free acidity	20
		Sucrose	20
		Lactone	20
		Antibiotic residues by HPLC	80
		Antibiotic residues by LC-MS/MS	100
Pesticide residues by GC	80		
Pesticide residues by GC-MS/MS	100		

		Microbiological examination	
		Total Plate count	15
		Coliform count	15
		Escherichia coli	20
		Salmonella spp	20
		Yeast and moulds	20
FOOD SAMPLES	Cereal, Cereal Products and Pulses	Physical examination	10
		Insect damage	10
		Heat damaged grains	10
		Coloured grains	10
		Discoloured grains	10
		Gluten	15
		Moisture content	20
		pH	10
		Sieve test	15
		Acidity	20
		Potassium Bromate test	20
		Coloured grains	10
		Immature/shriveled grains	10
		Foreign matter	10
		Chalky grains	10
		Ash content	30
		Protein	40
		Pesticide residues by GC	80
		Pesticide residues by GC-MS/MS	100
		Pesticide residues by LC-MS/MS	100
Total fat	40		
Total carbohydrate	20		

	Acid insoluble ash	40
	Urease activity test	10
	Riboflavin	80
	Nicotinic acid	80
	Vitamins	80
	Antioxidants (Vitamin E)	80
	Starch content	30
	Preservative Quantification each	30
	Fibre content	40
	Metals each by AAS	40
	Metals each by ICP-OES	50
	Diastase activity	30
	Atropine	20
	Mycotoxins by HPLC	80
	Mycotoxins by LC-MS/MS	100
	Glycosidic cyanide by HPLC	80
	Microbiological examination:	
	Total plate count	15
	Clostridium perfringens	20
	Staphylococci spp	20
	Salmonella spp	30
	Yeast and moulds	20
	Enterobacteriaceae	20
	Bacillus cereus	20
	Coliforms	15
	Escherichia coli spp	20
	Physical examination	10
	Moisture content	20
	pH	10
	Water insoluble matter	20
Edible Common Salt		

		Matter insoluble in acid	20
		Chlorides	20
		Metals each by AAS	40
		Metals each by ICP-OES	50
		Sulphates	20
		Alkalinity	20
		Flourides	20
		Iodine content	30
		Matter volatiles	15
		Insoluble impurities	15
		Soap test	10
		Metals each by AAS	30
		Metals each by ICP-OES	50
		Refractive index	15
		Relative density	10
		Saponification value by Reflux	30
		Unsaponifiable matter	30
		Iodine value (Wijs)	30
		Free fatty acids	20
		Arachinid acid	13
		Melting point	20
		Clarity test	10
		Halphen test	10
		Bandoin test	10
		Hexabromine test	10
		Polybromine test	10
		Bromine test	10
		Chlorides	20
		Peroxide value	20
		p-Anisidine value	20

Fats and Oils

Tea, Coffee, Cocoa, Herbs, and Spices	Colour by Tintometer	30
	Fatty acid profile by FTNIR	15
	Fatty acid profile by GC	80
	Fatty acid profile by GC - MS/MS	100
	Fatty acid profile by LC-MS/MS	100
	Physical examination	10
	Moisture content by Air Oven	20
	pH	10
	Water soluble ash	30
	Alkalinity of insoluble ash	30
	Microscopic examination	15
	Starch content	30
	Sugar content	20
	Fat content	40
	Volatile acids /essential oils	40
	Ash content	30
	Non volatile extracts	20
	Acid insoluble ash	40
	Metals each by AAS	40
	Metals each by ICP- OES	50
Extraneous / Foreign matter	10	
Fiber content	40	
Melting point	20	
Refractive index	15	
Alcohol extract	30	
Water extract	20	
Chlorides	20	
Caffeine by HPLC	80	

		Caffeine by LC-MS/MS	100
		Mycotoxins by HPLC	80
		Mycotoxins by LC-MS/MS	100
		Microbiological Examination:	
		Total plate count	15
		Coliforms count	15
		Escherichia coli spp	20
		Salmonella spp	20
		Clostridia spp	20
		Shigella spp in 25g	20
		Yeast and moulds	20
	Fruits, Jams, Chili, Tomato and Tomato Products	Physical examination	10
		Moisture content	20
		pH	10
		sugar content	20
		Acidity	20
		Specific gravity	10
		Metals each by AAS	40
		Metals each by ICP-OES	50
		Protein content	40
		Total carbohydrate	20
		Total solids	20
		Sodium Chlorides	20
		Ash content	30
		Alcohol content by Refractometer	25
		Alcohol content by GC	80
		Alcohol content by GC-MS/MS	100
		Preservative quantification	40
		Food Colour by TLC	30
		Food Colour by HPLC	80

		Artificial sweeteners	30
		Starch content	30
		Microbiological examination:	
		Coliforms	15
		Yeast and moulds	20
		Salmonella spp	20
		Escherichia coli spp	20
		Bacillus cereus	20
		Clostridium perfringens	20
		Listeria Monocytogenes	20
		Total plate count	15
	Meat and Meat Products	Physical examination	10
		Moisture content	20
		Protein	40
		Total volatile bases	80
		Thiobarbuturic acid	30
		Total fat	40
		Free fatty acids	20
		Peroxide value	20
		Preservatives	40
		Food colour by HPLC	30
		Metals each by AAS	40
		Metals each by ICP-OES	50
		Ash content	30
		Phosphorous	30
		Hydroxyproline	40
		Nitrates	30
		Nitrites	30
	Total carbohydrate	20	
	Starch content	30	

		Total fat	40
		Mycotoxins by HPLC	80
		Mycotoxins by LC-MS/MS	100
		Pesticide residues by GC	80
		Pesticide residues by GC - MS/MS	100
		Antibiotic residues by HPLC	80
		Antibiotic residues by LC-MS/MS	100
		Precipitin test	50
		Microbiological examination:	
		Total Plate count	15
		Staphylococci spp	20
		Salmonella spp	20
		Coliforms	15
		Escherichia coli spp	20
FOOD SAMPLES	Fish and Fish Products	Physical examination	10
		Total volatile bases	80
		Trimethyl amine	80
		Histamine	80
		Preservative each	40
		Metals each by AAS	50
		Metals each by ICP-OES	50
		Mycotoxins by HPLC	80
		Mycotoxins by LC-MS/MS	100
		Pesticide residues by GC	80
		Pesticide residues by GC-MS/MS	100
		Antibiotic residues by HPLC	80
		Antibiotic residues by LC-MS/MS	100
		Protein	40

		Volatile fatty acid	80			
		Fat content	40			
		Salts (Sodium chloride)	20			
		Pesticide residues by GC	80			
		Pesticide residues by GC-MS/MS	100			
		Pesticide residues by Lassaigne test	50			
			FTIR / IR	30		
			Microbiological Examination:			
			Salmonella in 25g	20		
			Shigella in 25g	20		
			Staphylococcus aureus	20		
			Total viable aerobic count	15		
			Coliforms	15		
			Escherichia coli spp	20		
			PHARMACEUTICAL SAMPLES	Raw Materials of Drugs	Physical examination	10
					Moisture content	20
					Colour test	30
Bulk density	10					
Solubility	10					
Melting point	20					
Assay of active ingredient and related substances:						
HPLC	80					
LC-MS/MS	100					
Gravimetric	20					
Potentiometric	20					
GC	80					
GC-MS/MS	100					
UV/VIS	30					

Tablet, Lozenges, Capsules, Suppositories and Persaries	TLC	30
	FTIR/IR	30
	Metals each by ICP-OES	50
	Metals each by AAS	40
	Bioassay (Microbiology)	70
	Sterility test (Microbiology)	20
	Physical examination	10
	Solubility	10
	Uniformity of weight	10
	Hardness test	10
	Friability test	20
	Colour test	30
	Wet test	10
	Assay of active ingredient and related substances:	
	HPLC	80
	LC-MS/MS	100
	Gravimetric	20
	Potentiometric	20
	GC-MS/MS	100
	UV/VIS	30
	TLC	30
	FTIR/IR	30
	Metals each by AAS	40
	Metals each by ICP-OES	50
	Bioassay (Microbiology)	70
	Sterility test (Microbiology)	20
	Disintegration test	30
	Dissolution test:	
UV/VIS	30	

		HPLC	80
		LC-MS/MS	100
Microbiological Examination:			
Total plate count		15	
Coliform count		15	
Escherichia coli		20	
Staphylococci spp		20	
Injectionables, Infusions, Syrups, Suspensions, Diluents, and Emulsions		Physical examination	10
		pH	10
		Particle size	15
		Colour test	30
		Solubility	10
		Uniformity of weight	10
		Clarity	10
		Leakage test	10
		Assay of active ingredient and related substances:	
		HPLC	80
		LC-MS/MS	100
		Gravimetric	20
		Potentiometric	20
	GC	80	
	GC-MS/MS	100	
	UV/VIS	30	
	TLC	30	
	FTIR/IR	30	
	Metals each by AAS	40	
	Metals each by ICP-OES	50	
Sterility test (Microbiology)	20		

	Injectable powders	Physical examination	10
		Moisture content	20
		Colour test	30
		Solubility	10
		Uniformity of content	10
		Melting point	20
		Assay of active ingredient and related substances	
		HPLC each parameter	80
		LC-MS/MS	100
		Gravimetric	20
		Potentiometric	20
		GC each parameter	50
		GC	100
		GC-MS/MS	100
		UV/VIS	30
		TLC	30
		FTIR/IR	30
	Metals each by AAS	30	
	Metals each by ICP-OES	35	
	Bioassay (Microbiology)	70	
	Ointments, Lotions and Creams	Physical examination	10
		Particle size	15
		Colour test	30
		Solubility	10
		Uniformity of content	10
		Leakage test	10
		Assay of active ingredient and related substances:	
HPLC	80		

PHARMACEUTICAL SAMPLES	Aerosols, Inhalations and Spray	LC-MS/MS	100
		Gravimetric	20
		Potentiometric	20
		GC	80
		GC - MS/MS	100
		LC - MS/MS	100
		UV/VIS	30
		TLC	30
		FTIR/IR	30
		Metals each by AAS	40
		Metals each by ICP-OES	50
	Preservative test	40	
	Ointments, Lotions and Creams	Physical examination	10
		Spray pattern	10
		Particle size	15
		Colour test	30
		Leakage test	10
		Assay of active ingredient and related substances:	
		HPLC	80
		LC-MS/MS	100
		Gravimetric	20
		Potentiometric	20
		GC	50
		GC-MS/MS	100
		LC-MS/MS	100
		UV/VIS	30
TLC		30	
FTIR/IR		30	

		Metals each by AAS	40
		Metals each by ICP-OES	50
		Bioassay (Microbiology)	70
	Oral, Ophthalmic, Nasal and Ear Drops	Physical examination	10
		pH	10
		Particle size	15
		Colour test	30
		Solubility	10
		Leakage test	10
		Assay of active ingredient and related substances:	
		Gravimetric	20
		Potentiometric	20
		HPLC	80
		GC	80
		GC-MS/MS	100
		LC-MS/MS	100
		UV/VIS spectrophotometer	30
		TLC	30
		FTIR/IR	30
		Metals each by AAS	40
Metals each by ICP-OES	50		
Bioassay (Microbiology)	70		
Preservative test each	40		
Dialysis water	Toxic Chemicals		
	Aluminium	40	
	Total Chlorine	20	
	Copper	40	
	Fluoride	30	

	Dialysis water	Lead	40
		Nitrate as (Ni)	30
		Sulphate	20
		Zinc	40
		Antimony	40
		Arsenic	40
		Barium	40
		Beryllium	40
		Cadmium	40
		Chromium	40
		Mercury	40
		Selenium	40
		Silver	40
		Thallium	40
		Electrolytes	
		Calcium	40
	Magnesium	40	
	Potassium	40	
	Sodium	40	
	Microbiological Analysis		
	Colony forms	20	
	Endotoxin	70	
	Plant and Herbs	Physical examination	10
		Chemical/Preliminary test	40
		Foreign matter	10
		Toxicity test	60
Microscopic examination		20	
Assay of active ingredient and related substances:			
TLC		30	

PLANT AND HERBS		UV/VIS	30		
		FTIR/IR	30		
		GC	80		
	Plant and Herbs	Plant and Herbs	GC-MS/MS	100	
			LC-MS/MS	100	
			Ion Chromatography each parameter	80	
			Metals each by AAS	40	
			Metals each by ICP-OES	50	
			Microbiological examination:		
			Coliforms	15	
			Yeast and moulds	20	
			Salmonella spp	20	
			Escherichia coli spp	20	
			Bacillus cereus	20	
			Clostridium perfringens	20	
Shigella in 25g	20				
Enterobacteria	20				
Listeria Monocytogenes	20				
Total plate count	15				
Clean Residues/ Concentrates	Clean Residues/ Concentrates	Direct Instrumental Analysis:			
		GC	40		
		GC-MS/MS	50		
		LC-MS/MS	50		
		HPLC	40		
		Gas Analyzer	40		
		Metals each by AAS	25		
		Metals each by ICP-OES	30		
		OSA-4 each parameter	50		

		XRF	50
		XRD	50
		FTIR	30
		FNIR	15
		UV-VIS	15
		Cyanide Analyzer each parameter	30
		Fluorometer	30
		Ion Chromatography each parameter	40
		Total Fat Analyzer	20
		Fiber Analyzer	20
Fuel Analyzer each parameter	20		
INDUSTRIAL, ENVIRONMENTAL SAMPLES AND OCCUPATIONAL HEALTH SAMPLES	Drinking and Waste Water	Physical examination	10
		pH	10
		Color test	30
		Alkalinity	20
		Conductivity	10
		Turbidity	10
		Total suspended solids	20
		Total dissolved solids	30
		Total Hardness	30
		Ammoniacal Nitrogen	30
		Sulphates	20
		Chlorides	20
		Nitrites	30
		Fluorides	30
		Silica by Multi-parameter	30
		Free Chlorine by Multi-parameter	30
Total Chlorine by Multi-parameter	30		
Bicarbonate alkalinity by titrimetric	30		

		Carbonate alkalinity	30
		Dissolved oxygen	30
		COD	50
		BOD	50
		Sludge index	30
		Cyanide test	30
		Pesticide Residues by GC	80
		Pesticide Residues by GC-MS/MS	100
		Hydrocarbons by GC	80
		Metals each by AAS	40
		Metals each by ICP-OES	50
		Phenolic Compounds by GC	80
INDUSTRIAL, ENVIRONMENTAL SAMPLES AND OCCUPATIONAL HEALTH SAMPLES	Drinking Water and Waste Water	Microbiological Examination:	
		Coliforms count	15
		Escherichia coli spp	20
		Enterococcus spp	20
		Pseudomonas spp	20
		Clostridium perfringens	20
		Sulphite reducing anaerobes	20
		Salmonella spp	20
		Yeast and moulds	20
		Endotoxin	60
		Hypochlorites and Disinfectants	physical examination
	Moisture content		20
	pH		10
	Color test		30
	Available chlorine		20
	Residual chlorine		20

		Coagulation/Flocculation	20
		Metals each by AAS	40
		Metals each by ICP-OES	50
	Composite Manure	Physical examination	10
		Nitrogen content	50
		Sulphates	20
		Chlorides	20
		Metals each by AAS	40
		Metals each by ICP-OES	50
		Pesticide residues by GC	80
		Pesticides residues by Lassaigne test	50
		Pesticides residues by FTIR/IR	30
		Fertilizer	Physical examination
	Metals each by AAS		40
	Metals each by ICP-OES		50
	Moisture content		20
	Total Ash		30
	Acid insoluble ash		40
	Total Phosphorus		30
	Ammoniacal Nitrogen		30
	Total Nitrogen		40
	Total Sulphates		20
	Mosquito Coils	Physical Examination	10
		Moisture content	15
		Pyrethrins by GC	80
		Pyrethrins by GC/MS	100

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		Pesticide residues:	
		Lassaigne test	50
		GC	80
		GC - MS/MS	100
		LC-MS/MS	100
		HPLC	80
	Tooth Paste	Physical examination	10
		pH	10
		Color test	30
		Fineness test	10
		Abrasion test	10
		Foaming test	20
		Homogeneity/Consistency test	10
		Chlorides	20
		Flavour	30
		Sweetener	30
		Fluorides	30
		Metals each by AAS	40
	Metals each by ICP-OES	50	
	Sea Water Damaged Samples	Physical examination	10
Chlorides		20	
Salinity		10	

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INDUSTRIAL, ENVIRONMENTAL SAMPLES AND OCCUPATIONAL HEALTH SAMPLES	Soap, Detergents and Shampoo	physical examination	10
		Free caustic alkali	20
		Total free alkali	20
		Matter insoluble alcohol	20
		Matter insoluble water	20
		Total fatty matter	20
		Free fatty acid	30
		Hydroquinone by HPLC	80
		Unsaponifiable matter	30
		Saponifiable matter	30
		Volatile matter	15
		Silicates	30
		Borates	30
		Total phosphates	30
		Anionic detergent	30
		Non soap detergent	30
		Metals each by AAS	40
	Metals each by ICP-OES	50	
	Cosmetics and Creams	Physical examination	10
		pH	10
		Moisture content	20
		Acidity	20
		Alkalinity	20
		Sulphates	20
		Chlorides	20
		Iodine value	20
Peroxide value		20	
Organic matter	15		
Hydroquinone by HPLC	80		

i) Liquid Petroleum Products (Diesel Petrol, Inflammable Kerosene, Oils)	Mineral oil by GC	80
	Phenolic compounds by HPLC	80
	Alcoholic compounds by GC	80
	physical examination	10
	Color ASTM	20
	Water content	20
	Sediments	20
	Chlorides	20
	Sulphated ash	30
	Sulphur content	30
	Acidity	20
	Alkalinity	20
	Kinematic viscosity by OSA4	30
	Specific gravity	10
	Flash point	30
	Fire point	30
	Cloud point	30
	Pour point	30
	Distillation Range	40
	Octane number	30
	Carbon residue	30
	Saponificaion value	30
	Unsaponifiable matter	30
	Metals each by OSA4	30
	Soot content by OSA4	30
	Total base number by OSA4	30

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	ii) Solid Petroleum Products (Petroleum Jelly, Grease)	Physical examination	10
		Kinematic viscosity	30
		Colour ASTM	20
		UV-Fluorescence	30
		Free alkalis	20
		Free fatty acids	20
		Sulphur content	30
		Acidity	20
		Sulphated ash	30
		Saponification value	30
		Unsaponifiable matter	30
		Metals each by AAS	40
		Metals each by ICP-OES	50
		Microbiological examination:	
		Total Plate Count	15
	Coliform count	15	
	Escherichia coli spp	20	
	Staphylococci spp	20	
	iii) Waxes	Physical Examination	10
		Ester value	30
		Ester acid ratio	30
		Specific gravity	10
		Iodine value	20
		Flash point	30
		Fire point	30
		Cloud point	30
	Dielectric constant	30	

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		Physical examination	10
		Free fatty acids	20
		Acidity	20
		Peroxide value	20
		Iodine value	20
		Saponification value	30
		Unsaponifiable matter	30
	Lime, Limestone, Gypsum and Cement	Physical examination	10
		Loss on ignition	15
		Silicates by XRF	30
		Impurities	20
		Chlorides	20
		Water of crystallization	40
		Sulphates	20
		Acid insoluble matter	10
		Metals each by AAS	40
		Metals each by ICP-OES	50
	Tobacco and Tobacco Products	Physical examination	10
		Loss on heating	15
		Total alkaloids	25
		Total nitrogen	40
		Total ash	30
		Total chlorides	20
		Nicotine content by GC	80
		Nicotine content by GC/MS	100
		Microbiological examination:	
		Free from moulds and weevils	10
Physical examination	10		
Coloring matter	30		

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INDUSTRIAL, ENVIRONMENTAL AND OCCUPATIONAL HEALTH SAMPLES		Pesticides residues:	
		Lassaigne test	50
		FTIR/IR	30
		UV Visible	30
		Assay by GC	80
		Assay by HPLC	80
		Assay by LC-MS/MS	100
		Assay by GC-MSMS	100
		Metals each by AAS	40
		Metals each by ICP-OES	50
	Physical examination	10	
	Alkalis and Salts	Moisture content	20
		Solubility	10
		Color test	30
		Melting point	20
		Physical examination	10
	Mineral Acids	Flame test	10
		Action on heat	10
		Assay by potentiometric	20
Assay by gravimetric		25	
Color test		30	
Solubility		10	
Specific gravity		10	
Assay by potentiometric		20	
Metals each by AAS		40	
Metals each by ICP-OES		50	
Organic Solvents/ Compounds	Physical examination	10	
	Color test	30	
	Boiling point	10	

INDUSTRIAL, ENVIRONMENTAL SAMPLES AND OCCUPATIONAL HEALTH SAMPLES		Specific gravity	10
		Miscibility test	10
		Assay of active ingredient and related substances:	
		GC	80
		LC-MS/MS	100
		GC-MS/MS	100
		HPLC	80
		UV Visible	30
	FTIR	30	
	Paints and Dyes	Physical examination	10
		Solubility	10
		Color test	30
		Melting point	20
		Particle size	15
		Opacity test	10
		Specific gravity	10
		Viscosity	30
		Metals each by AAS	40
		Metals each by ICP-OES	50
		Assay of active ingredient and related substances:	
		Potentiometric	20
		UV Visible	30
		GC	80
		GC-MS/MS	100
	LC-MS/MS	100	
	Rubber and Plastic Chemicals	Physical examination	10
		Solubility	10
		Melting point	20

		Elasticity	15
		FTIR/IR	30
		GC	80
	Occupational Samples	Physical examination	10
		Metals each by AAS	40
		Metals each by ICP-OES	50
		Pesticides residues:	
		Lassaigne test	50
		GC	80
		GC - MS/MS	100
		LC-MS/MS	100
		Persistent organic Pollutants (POPs):	
		GC	100
		GC – MS/MS	80
	Soil Samples	Physical examination	10
		pH	10
		Conductivity	10
		Texture	10
		Moisture content	20
		Metals each by AAS	40
		Metals each by ICP-OES	50
		Total organic carbon by titrimetric	30
		Pesticides residues:	
Lassaigne test		50	
GC/MS		100	

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FORENSIC SCIENCE (FORENSIC TOXICOLOGY SAMPLES)		LC-MS/MS	100	
		Hydrocarbons by GC	80	
		Persistent organic Pollutants (POPs):		
		GC	100	
		GC - MS	80	
		Blood Stain on Clothes and Weapon	Physical examination	30
			Kastle Mayers test	20
			DNA preliminary Test using kits	20
		Human Remains and Hairs	Physical examination	30
			Microscopic examination	20
			Precipitin test	30
		Blood and Saliva	Physical examination	30
			Kestle Mayers Test	20
			DNA preliminary Test using kits	20
		Spermatozoa Identification	Microscopic examination	20
			Acid phosphatase test	20
		Stained Clothes	Physical examination	30
			UV- Fluorescence Test	10
			Walkers Test	20
		Paternity Samples	Genetic counseling	10
		Paternity test (DNA profiling) - from Advocate	150	
		Paternity test (DNA profiling) - from Social welfare	100	
	Criminal Samples	Physical examination	30	
		Preliminary test	80	
		DNA extraction	70	
		PCR Analysis	50	

	DNA profiling by Genetic Analyzer	50
Kinship Samples	Genetic counseling	10
	DNA profiling by Genetic Analyzer	100
Disaster Victim Identification Samples	Physical examination	30
	DNA profiling by Genetic Analyzer	50
Sex Identification Samples	DNA profiling by Genetic Analyzer	50
Chimerism Samples	DNA profiling by Genetic Analyzer	50
Wild life Samples	Physical examination	30
	Precipitin test	30
	Sequence analysis (Full analysis)	300
	DNA profiling by Genetic Analyzer	170
Viscera, Stomach Content, Vomitus, Food Remains, Contaminated Food, Aspirates and Utensils	Physical examination	30
	Preservative qualitative test	30
	Reinsch Test	20
	Cyanide Test	30
	Glucose Test	10
	Poison isolation	60
	Pesticides residues:	
	GC	80
	LC-MS/MS	100
	GC-MS/MS	100
	HPLC	80
	FTIR/IR	30
	Metals each by AAS	40
	Metals each by ICP-OES	50

	Blood, Urine and Vitreous Humor	Alcohol Titrimetric	30	
		Poison isolation	60	
		Pesticide residues:		
		Lassaigne's Test	30	
		TLC	50	
		HPLC	80	
		GC	80	
		LC-MS/MS	100	
		GC-MS/MS	100	
		UV/VIS	30	
		FTIR/IR	30	
		Metal each by AAS	40	
		Metals each by ICP - EOS	50	
		FORENSIC SCIENCE (Forensic chemistry samples)	Seized Materials	Physical examination
Colour Test	30			
Microscopic Examination	15			
Assay of active ingredient and related substances:				
TCL	30			
HPLC	80			
GC	80			
GC-MS/MS	100			
LC-MS/MS	100			
UV/VIS	30			
FTIR/IR	30			
Samples Contaminated with Drugs of abuse	Physical examination			30
	Colour Test			30

OTHER TYPES OF SAMPLES		Assay of active ingredient and related substances:	
		TLC	30
		HPLC	80
		GC	80
		GC-MS/MS	100
		LC-MS/MS	100
		UV/VIS	30
	FTIR/IR	30	
	Gun powder Residue	Physical examination	30
		Sulphates	20
		Sulphites	20
		Nitrates	30
		Nitrites	30
		FTIR/IR	30
	Explosives and Explosion Materials	Physical examination	30
		Solubility	10
		Nitrates	30
Ammonium		20	
Nitro-glycerine		20	
Nitrocellulose		20	
Assay of active ingredient and related substances:			
HPLC		80	
GC		80	
GC-MS/MS		100	
LC-MS/MS		100	
FTIR		30	
Arrow	Physical examination	30	
	Preliminary test (sugar)	30	

	Oubain test (extraction and identification)	30
Arson	Physical examination	10
	chemical test	30
	Assay of active ingredient and related substances:	
	HPLC	80
	GC	80
	GC-MS/MS	100
	LC-MS/MS	100
Counterfeit and forgery	Physical examination	10
	chemical test	30
	Abrasive Test	10
	FTIR	30
	UV fluorescence	10
Paints, Flakes and Smears	Physical examination	10
	Solubility	10
	Assay of active ingredient and related substances:	
	TLC	30
	FTIR	30
	AAS	40
	ICP-OES	50
	LC-MS/MS	100
Glass	Physical examination	10
	Refractive index	30
Soil, Debris and Dust	Physical examination	10
	Solubility	10
	Fineness test	10
	Metals each by AAS	40
	Metals each by ICP-OES	50

		Microscopic examination	15
SAMPLING		Food and Food products	150
		Pharmaceutical and herbs samples	150
		Microbiological samples	150
		Environmental and occupational samples	150
		Drugs of abuse samples	150
		Arson and explosive samples	150
		Crime scene and disaster victims samples	200
		Civil cases samples	30
		Post mortem samples	150
		Chemical samples	
		i) Cost per sample	20
		ii) Cost per day per person for sampling outside point of entry	100
		Milli Q water per litre	10

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B: SUBSIDIZED PRICE FOR TRADITIONAL MEDICINES

Type	Matrix	Parameters	Price (Usd)
Traditional medicines	Plant and Herbs	Physical exam	2
		Chemical compositions (Qualitative test)	10
		Pesticide residues and Phytochemicals by LC – MS/MS or GC-MS/MS	50
		Heavy metals by AAS / ICP - OES (Pb, Cr, As, Cd)	40
		Aflatoxins by Fluorimeter	15
		Microbiology	35

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