

**THE UNITED REPUBLIC OF TANZANIA
MINISTRY OF HEALTH AND SOCIAL WELFARE**



GOVERNMENT CHEMIST LABORATORY AGENCY

PRICE LIST

**Government Chemist Laboratory Agency (GCLA)
Ministry of Health and Social Welfare,
Barack Obama Drive, P.O. Box 164, Dar es Salaam, Tanzania**

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FOREWORD

This document is devised to provide for samples and exhibits submitted to Government Chemist Laboratory Agency (GCLA) for testing and analysis. It also provides guiding cost for research, regulatory services, training and consultancy services conducted by the Agency.

The Agency pricing objective an strategy aims at affordable cost, high sales volume and greater market share for effective and efficient implementation of the Ministry of Health and Social Welfare service policy which is provision of high quality, effective, accessible and affordable, service to all, delivered by well performing and sustainable National Health and Social Welfare system that encourage responsiveness to the needs of people.

The charges on services delivered are competitive as compared to those of other local Institutions offering similar services.

The GCLA shall continually adhere to its core value and view the internal processes when need arise to ensure efficient and cost effective services to its customers and general public at all levels.

The price list has the approval of the Agency Ministerial Advisory Board and shall be adhered to implicitly.



Prof. S.V. Manyele

CHIEF GOVERNMENT CHEMIST

GLOSSARIES/ABREVIATION

ASTM	American Standard for Testing Materials
BOD	Biochemical Oxygen Demand
COD	Chemical Oxygen Demand
FTI/IR	Fourier Transformed Infra Red
GC	Gas Chromatography
GCLA	Government Chemist Laboratory Agency
GC-MS	Gas Chromatography Mass Spectrometer
HPLC	Gas Chromatography
HMF	Hydromethyl furfural
ICUMSA	International Commission for Uniform Methods of Sugar Analysis
TLC	Thin Layer Chromatography
UV-Visible	Ultra Violet Visible Spectroscopy

1.0 INTRODUCTION

The price list document is a guide to customers for testing and analysis charges on samples and exhibits of food, pharmaceuticals, chemical, occupational health and safety, environmental safety and health, forensic and toxicology. It also provides charge for consultancy, training, regulatory and research services offered by GCLA to other institutions.

This price list is the fourth after the third review which was in 2008 and have been prepared to accommodate factors which include:- economic framework, customer view, technology changes, methodology changes, competitors, cost and taxes of materials, operational costs and expansion off GCLA activities.

The price matrix has been set in US Dollars and equivalent in Tanzania shillings. Free convertible currency shall be calculated on the exchange rate prevailing on the date of service agreement. The value Added Tax (VAT) is Exclusive.

Requirement for the service level agreement has been addressed, which will depend on volume of samples or frequency of submitting samples. For 'Express Service Delivery' the charges quoted shall be double the ordinary charges in the price list.

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 provision of quality services we shall be guided by the eight core value, 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 to the set code conduct, rules, regulation and acceptable behaviour 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.

2.3.3 Accountability

We believe in being responsible and accountable for our actions.

2.3.4 Team Spirit

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

2.3.5 Diversity

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

2.3.6 Transparency

We believe in sharing information both within and outside the organization. We will endeavour to recognize participatory decision-making. We will communicate with our customers and stakeholders in a proactive and responsive manner.

2.3.7 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 PRICE LIST MATRIX

SAMPLE CATEGORY	TYPE OF SAMPLE	TYPE OF ANALYSIS	COST/USD		
FOOD SAMPLES	Non Alcoholic Beverages	Physical Examination	6.00		
		pH	7.00		
		Acidity	8.00		
		Sugar Content	13.00		
		Preservative Quantification	26.00		
		Sweeteners	20.00		
		Microbiological Examination	70.00		
		Carbon Dioxide	10.00		
		Colouring Matter	27.00		
		Metals - each by AAS	25.00		
		Metals – each by ICP-OES	30.00		
		Total Solids	8.00		
		Fermented Products	Fermented Products	Total Acidity	8.00
				pH	7.00
				Flavour	23.00
Bitterness	23.00				
Fixed Acidity	8.00				

		Volatile Acidity	8.00
		Total Solids	8.00
		Sugar	15.00
		Tannin	12.00
		Free Sulphur	12.00
		Specific Gravity	7.00
		Metals - each by AAS	25.00
		Metals – each by ICP-OES	30.00
		Ash Content	22.00
		Carbon Dioxide	10.00
		Alcohol Content by Refractometer	22.00
		Alcohols by GC	45.00
		Preservative Quantification	26.00
		Non Sugar Solids	12.00
		Methanol by GC	45.00
		Microbiological Examination	70.00
		Sugar Content	15.00
		Starch	13.00
	Diary and Dairy Products	Physical Examination	6.00
		Moisture Content/ Volatile matter	10.00
		Milk Fat	20.00
		Curd	20.00
		pH	7.00

		Specific Gravity	7.00
		Acidity	8.00
		Solubility	6.00
		Titration Acidity	8.00
		Butter Fat	14.00
		Milk Solids	14.00
		Water Content	10.00
		Ash Content	22.00
		Lactose Content	20.00
		Microbiological Examination	70.00
		Butter Salt	14.00
		Metals - each by AAS	25.00
		Metals – each by ICP-OES	30.00
		Protein	25.00
		Casein	20.00
		Antibiotic Residues by HPLC	55.00
		Pesticide Residues by GC	45.00
		Pesticide Residues by GC/MS	60.00
		Total Solids	8.00
		Non Solid Fat	10.00
		Aflatoxin by HPLC	55.00
		Preservative Quantification	26.00
		Phosphate Test	25.00

		Colouring matter	27.00
		Albumin Test	14.00
		Freezing Point	10.00
		Sugar in Milk	30.00
		Fat Acid Profile	45.00
		Refractive Index	13.00
	Sugars and Honey	Physical Examination	6.00
		Moisture	10.00
		pH	7.00
		Polarization	10.00
		Reducing Sugar	20.00
		Sulphur Dioxide	16.00
		Colour (ICUMSA) by UV	25.00
		Total Ash	22.00
		Conductivity Ash	24.00
		Metals - each by AAS	25.00
		Metals - each by ICP – OES	30.00
		HMF	25.00
		Diastase Activity	22.00
		Water Insoluble Matter	10.00
		Total Nitrogen	30.00
		Proline	23.00
		Free Acidity	8.00
		Sucrose	18.00

		Lactone	13.00
		Antibiotic Residues by HPLC	55.00
		Pesticide Residues by GC	45.00
		Pesticide Residues by GC/MS	60.00
		Microbiological Examination	70.00
		Dextrose	15.00
	Cereals, Cereal Products and Pulses	Physical Examination	6.00
		Insect Damage	6.00
		Heat Damaged Grain	6.00
		Coloured Grain	6.00
		Discoloured Grain	6.00
		Glutein	6.00
		Moisture Content	10.00
		pH	7.00
		Sieve Test	6.00
		Acidity	8.00
		Potassium Bromate Test	8.00
		Coloured grain	6.00
		Immature/Shriveled Grain	6.00
		Foreign Matter	6.00
		Chalky Grain	6.00
		Paddy Grain	6.00
		Ash Content	22.00

		Protein	25.00
		Pesticide Residues by GC	45.00
		Pesticide Residues by GC/MS	60.00
		Total Fat	14.00
		Total Carbohydrate	15.00
		Acid Insoluble Ash	24.00
		Urease Activity Test	9.00
		Riboflavin	25.00
		Nicotinic Acid	25.00
		Vitamins	25.00
		Antioxidants	20.00
		Starch Content	13.00
		Preservative Quantification	26.00
		Microscopic Examination	13.00
		Fibre	23.00
		Metals – each by AAS	25.00
		Metals – each by ICP-OES	30.00
		Diastate Activity	26.00
		Atropine	20.00
		Aflatoxin by HPLC	55.00
		Glycosidic Cyanide	20.00
		Talc	15.00
		Microbiological Examination	70.00

	Edible Common Salt	Physical Examination	6.00	
		Moisture Content	10.00	
		pH	7.00	
		Water Insoluble Matter	10.00	
		Matter Insoluble in Acid	10.00	
		Chlorides	16.00	
		Metals - each by AAS	25.00	
		Metals – each by ICP-OES	30.00	
		Sulphates	15.00	
		Alkalinity	16.00	
		Flourides	16.00	
		Iodine Content	16.00	
		Fats and Oils	Matter Volatile at 105° C	10.00
			Insoluble Impurities	8.00
	Soap Test		6.00	
	Metals – each by AAS		25.00	
	Metals – each by ICP-OES		30.00	
	Refractive Index		13.00	
	Relative Density		7.00	
	Saponification Value		13.00	
	Unsaponifiable Matter		13.00	
	Iodine Value		16.00	
	Free Fat Acids		13.00	
	Arachidic Acid	13.00		

		Melting Point	8.00
		Clarity Test	8.00
		Halphen Test	8.00
		Bandoin Test	8.00
		Hexabromine Test	8.00
		Polybromine Test	8.00
		Bromine Test	8.00
		Chlorides	16.00
		Gossypolin	16.00
		Peroxide Value	16.00
		Colour (Tintometer)	8.00
		Fatty Acid Profile by GC	45.00
	Tea, Coffee, Cocoa, Herbs and Spices	Physical Examination	6.00
		pH	7.00
		Moisture Content	10.00
		Water Soluble Ash	24.00
		Alkalinity of Insoluble Ash	24.00
		Microscopic Examination	13.00
		Starch	13.00
		Sugar Content	15.00
		Fats	14.00
		Volatile Oils	15.00
		Ash Content	22.00
		Non Volatile Extracts	13.00

		Acid Insoluble Ash	24.00
		Metals - each by AAS	25.00
		Metals – each by ICP - OES	30.00
		Extraneous Matter	6.00
		Fibre	23.00
		Melting Point	8.00
		Refractive Index	13.00
		Microbiological Examination	70.00
		Alcohol Extract	16.00
		Water Extract	14.00
		Chlorides	16.00
		Caffeine	30.00
		Aflatoxin	45.00
	Fruits, Jams, Chill, Tomato and Tomato Products	Physical Examination	6.00
		Moisture Content	10.00
		pH	7.00
		Sugar Content	13.00
		Acidity	8.00
		Specific Gravity	7.00
		Metals - each by AAS	25.00
		Metals – each by ICP-OES	30.00
		Protein	25.00
		Carbohydrates	23.00
		Total Solids	8.00

		Sodium Chloride	16.00
		Ash Content	22.00
		Microbiological Examination	70.00
		Ethanol Content by Refractometer	22.00
		Ethanol Content by GC	45.00
		Preservative Quantification	26.00
		Colour Added	27.00
		Artificial Sweeteners	26.00
		Starch	15.00
	Meat and Meat Products	Physical Examination	6.00
		Protein	25.00
		Moisture Content	10.00
		Total Volatile Bases	25.00
		Thiobarbuturic Acid	25.00
		Free Fatty Acids	15.00
		Peroxide Value	16.00
		Preservatives	26.00
		Colouring matter	27.00
		Metals - each by AAS	25.00
		Metals – each by ICP – OES	30.00
		Ash Content	22.00
		Phosphorous	25.00
		Hydroxyproline	23.00

		Nitrates	30.00
		Nitrites	30.00
		Microbiological Examination	70.00
		Carbohydrates	23.00
		Starch	15.00
		Fats	14.00
		Pesticide Residues by GC	45.00
		Pesticide Residues by GC/MS	60.00
		Antibiotic Residues	55.00
		Precipitin Test	30.00
		Lean Meat Content	30.00
	Fish and Fish Products	Physical Examination	6.00
		Total Volatile Bases	25.00
		Trimethyl Amine	23.00
		Indole	23.00
		Histamine	23.00
		Boric Acid	23.00
		Preservative Quantification	26.00
		Metals - each by AAS	25.00
		Metals – each by ICP – OES	30.00
		Ash Content	22.00
		Microbiological Examination	70.00
		Protein	25.00

		Volatile Fatty Acid	45.00
		Fat Content	14.00
		Salts	16.00
		Ammonia in Crabs	25.00
		Hypoxanthine	23.00
		Pesticide Residues by GC	45.00
		Pesticide Residues by GC/MS	60.00
		Lassaigne Test	25.00
		FTIR/IR	25.00
	DNA For Food Samples	Genetic Profile	250.00
PHARMACEUTICAL SAMPLES	Starting (Raw) Materials	Physical Examination	6.00
		Odour	6.00
		Moisture Content	10.00
		Colour Test	10.00
		Bulk Density	8.00
		Solubility	10.00
		Melting Point	8.00
		Assay of Active Ingredient and related substances	
		HPLC	55.00
		Gravimetric	16.00
		Potentiometric	16.00
		GC	45.00
		Metals - each by AAS	25.00

		Metals – each by ICP – OES	30.00
		UV Visible	25.00
		TLC	30.00
		FTIR/IR	25.00
		Bioassay	70.00
		Sterility test	70.00
	Tablets, Lozenges and Capsules	Physical Examination	6.00
		Solubility	10.00
		Uniformity of Weight	6.00
		Odour	6.00
		Hardness Test	6.00
		Friability Test	6.00
		Colour Test	10.00
		Assay of Active Ingredient and Related Substances:	
		HPLC	55.00
		Gravimetric	16.00
		Potentiometric	16.00
		GC	45.00
		Metals - each by AAS	25.00
		Metals – each by ICP – OES	30.00
		UV Visible	25.00
		TLC	30.00
		FTIR/IR	25.00

		Bioassay	70.00
		Sterility test	70.00
		Disintegration Test	17.00
		Dissolution Test:	
		UV Visible	25.00
		HPLC	55.00
	Sappositories and Persaries	Physical Examination	6.00
		Solubility	6.00
		Odour	6.00
		Hardness Test	6.00
		Colour Test	10.00
		Wet Test	6.00
		Uniformity of Weight	6.00
		Assay of Active Ingredient and Related Substances:	
		HPLC	55.00
		Gravimetric	16.00
		Potentiometric	16.00
		GC	45.00
		Metals - each by AAS	25.00
		Metals – each by ICP – OES	30.00
		UV Visible	25.00
		TLC	30.00
		FTIR/IR	25.00

		Dissolution Test:	
		UV Visible	25.00
		HPLC	55.00
	Liquid Injectable and Infusions	Physical Examination	6.00
		Odour	6.00
		pH	7.00
		Particle Size	12.00
		Colour Test	10.00
		Solubility	10.00
		Uniformity of Content	6.00
		Clarity	6.00
		Leakage Test	6.00
		Assay of Active Ingredient:	
		HPLC	55.00
		Gravimetric	16.00
		Potentiometric	16.00
		GC	45.00
	Metals - each by AAS	25.00	
	Metals – each by ICP – OES	30.00	
	UV Visible	25.00	
	TLC	30.00	
	FTIR/IR	25.00	
	Bioassay	70.00	
	Sterility Test	70.00	

	Injectable Powders	Physical Examination	6.00
		Odour	6.00
		Moisture Content	10.00
		Colour Test	10.00
		Solubility	10.00
		Uniformity of Content	6.00
		Melting Point	8.00
		Assay of Active Ingredient and Related Substances:	
		HPLC	55.00
		Gravimetric	16.00
		Potentiometric	16.00
		GC	45.00
		Metals - each by AAS	25.00
		Metals -- each by ICP – OES	30.00
		UV Visible	25.00
		TLC	30.00
		FTIR/IR	25.00
		Bioassay	38.00
	Liquid preparations (Non Injectables) Syrups, Suspensions and Emulsions	Physical Examination	6.00
		pH	7.00
		Odour	6.00
		Colour Test	10.00
		Solubility	10.00

		Uniformity of Content	6.00
		Leakage Test	6.00
		Assay of Active Ingredient and Related Substances:	
		HPLC	55.00
		Gravimetric	16.00
		Potentiometric	16.00
		GC	45.00
		Metals - each by AAS	25.00
		Metals – each by ICP – OES	30.00
		UV Visible	25.00
		TLC	30.00
		FTIR/IR	25.00
		Preservative test	27.00
		Microbiological Examination	70.00
	Ointments, Lotions and Creams	Physical Examination	6.00
		pH	7.00
		Odour	6.00
		Particle Size	12.00
		Colour Test	10.00
		Solubility	10.00
		Uniformity of Content	6.00
		Leakage Test	6.00
		Assay of Active Ingredient and	

		Related Substances:	
		HPLC	55.00
		Gravimetric	16.00
		Potentiometric	16.00
		GC	45.00
		Metals - each by AAS	25.00
		Metals – each by ICP – OES	30.00
		UV Visible	25.00
		TLC	30.00
		FTIR/IR	25.00
		Preservative test	27.00
		Microbiological Examination	70.00
	Aerosols, Inhalations and Sprays	Physical Examination	6.00
		Spray Pattern	8.00
		Particle Size	12.00
		Colour Test	10.00
		Leakage Test	6.00
		Assay of Active Ingredient:	
		HPLC	55.00
		Gravimetric	16.00
		Potentiometric	16.00
		GC	45.00
		Metals - each by AAS	25.00
		Metals – each by ICP –	30.00

		OES	
		UV Visible	25.00
		TLC	30.00
		FTIR/IR	25.00
		Bioassay	70.00
	Oral, Ophthalmic, Nasal and Ear Drops	Physical Examination	6.00
		pH	7.00
		Odour	6.00
		Particle Size	12.00
		Colour Test	10.00
		Solubility	10.00
		Leakage Test	6.00
		Assay of Active Ingredient and Related Substances :	
		HPLC	55.00
		Gravimetric	16.00
		Potentiometric	16.00
		GC	45.00
		Metals - each by AAS	25.00
		Metals – each by ICP – OES	30.00
		UV Visible	25.00
		TLC	30.00
		FTIR/IR	25.00
		Bioassay	70.00

		Preservative Test	27.00
	Packing Materials	Bursting Strength Test	8.00
		Cobb Value Tesst	15.00
		Inking Test	6.00
		Thickness Test	6.00
		Width Test	6.00
		Microbiological Examination	70.00
INDUSTRIAL, ENVIRONME NTAL SAMPLES AND OCCUPATION AL HEALTH SAMPLES		Drinking Water	Physical Examination
	pH		7.00
	Colour Test		10.00
	Alkalinity		12.00
	Conductivity		6.00
	Turbidity		6.00
	Total Suspended Solids		14.00
	Total Dissolved Solids		14.00
	Total Dissolved Solids by Instrument		6.00
	Total Hardness		14.00
	Ammoniacal Nitrogen		25.00
	Pesticide Residues by GC		45.00
	Pesticide Residues by GC/MS		60.00
	Hydrocarbons		45.00
	Metals - each by AAS		25.00
	Metals – each by ICP-OES		30.00

		Sulphides	17.00
		Cyanide Test	15.00
		Phenolic Compounds by GC	45.00
		Sulphates	15.00
		Sulphates by Multiparameter	7.00
		Chlorides	16.00
		Microbiological Examination	70.00
		Nitrites	30.00
		Nitrites by Multiparameter	7.00
		Fluorides	14.00
	Waste Water	Physical Examination	6.00
		pH	7.00
		Conductivity	6.00
		Alkalinity	12.00
		Cyanide Test	15.00
		Phenolic Compounds	45.00
		Colour	10.00
		Turbidity	6.00
		Total Dissolved Solids	14.00
		Total Dissolved Solids by Multiparameter	7.00
		Total Suspended Solids	14.00
		Total Hardness	14.00
		Sulphides	17.00

	Silicates	14.00
	Metals - each by AAS	25.00
	Metals – each by ICP-OES	30.00
	Total Carbon	25.00
	Total Phosphates	25.00
	Ammoniacal Nitrogen	25.00
	Total Nitrogen	24.00
	Sulphates	15.00
	Chlorides	16.00
	Microbiological Examination	70.00
	Dissolved Oxygen	12.00
	COD	25.00
	BOD	30.00
	Sludge Index	13.00
	Hydrocarbons (Oil / Grease /Phenol) by GC	45.00
	Hydrocarbons (Oil / Grease /Phenol) by GC/MS	60.00
	Fluorides	14.00
	Settleable Solids	14.00
	Cyanide Test	15.00
	Salinity	16.00
	Nitrates	30.00
	Nitrates by Multiparameter photometer	7.00

		Nitrites	30.00
		Nitrites by Multiparameter photometer	7.00
		Pesticide Residues by GC	45.00
		Pesticide Residues by GC/MS	60.00
		Volatile Fatty Acid	8.00
	Hypochlorites and Disinfectants	Physical Examination	6.00
		Moisture Content	10.00
		pH	7.00
		Colour Test	10.00
		Available Chlorine	15.00
		Residual Chlorine	15.00
		Coagulation / Flocculation	15.00
		Metals - each by AAS	25.00
		Metals – each by ICP-OES	30.00
		Chlorides	16.00
		Sulphates	15.00
		Sulphates by Multiparameter	7.00
		Nitrates	30.00
		Nitrates by Multiparameter	7.00
		Microbiological Examination	70.00
	Composite Manure	Physical Examination	6.00
		Nitrogen Content	25.00

		Sulphates	15.00
		Sulphates by Multiparameter	7.00
		Chlorides	16.00
		Metals - each by AAS	25.00
		Metals – each by ICP - OES	30.00
		Pesticide Residues by GC	45.00
		Lassaigne Test	25.00
		FTIR/IR	25.00
		GC	45.00
	Fertilizer	Physical Examination	6.00
		Metal – each by AAS	25.00
		Metals – each by ICP- OES	30.00
		Moisture Content	10.00
		Total Ash	22.00
		Acid Insoluble Ash	22.00
		Total Phosphorus	25.00
		Ammoniacal Nitrogen	25.00
		Total Nitrogen	25.00
		Total Sulphates	17.00
	Mosquito Coils	Physical Examination	6.00
		Moisture Content	10.00
		Pyrethrin by GC	45.00
		Pyrethrin by GC/MS	60.00

		Lassaigne Rest	25.00
		Pesticide Residues by GC	45.00
		Pesticide Residues by GC/MS	60.00
		HPLC	55.00
	Tooth Paste	Physical Examination	6.00
		pH	7.00
		Colour Test	10.00
		Fineness	6.00
		Abrasion	6.00
		Foaming Power	7.00
		Homogeneity / Consistency	6.00
		Flourides	16.00
		Metals - each by AAS	25.00
		Metals –each by ICP – OES	30.00
		Chlorides	16.00
		Flavour	23.00
		Sweetener	26.00
		Sea Water Damaged Samples	Physical Examination
	Chlorides		16.00
	Salinity		7.00
	Soap, Detergents and Shampoo	Physical Examination	6.00
		pH	7.00
		Moisture Content	10.00

		Free Caustic Alkali	13.00
		Total Free Alkali	13.00
		Mater Insoluble Alcohol	12.00
		Mater Insoluble Water	12.00
		Total Fatty Matter	21.00
		Free Fatty Acid	25.00
		Metals - each by AAS	25.00
		Metals – each by ICP - OES	30.00
		Hydroquinone	25.00
		Unsaponifiable Matter	13.00
		Saponifiable Matter	13.00
		Volatile Matter	10.00
		Silicates	14.00
		Borates	14.00
		Total Phosphates	25.00
		Anionic Detergent	10.00
		Non Soap Detergent	10.00
	Cosmetics and Creamies	Physical Examination	6.00
		pH	7.00
		Moisture Content	10.00
		Acidity	8.00
		Alkalinity	12.00
		Sulphates	15.00
		Iodine Value	16.00

		Organic Matter	45.00
		Hydroquinone	25.00
		Peroxide Value	16.00
		Mineral Oil by GC	45.00
		Chlorides	16.00
		Phenolic Compounds	45.00
		Alcoholic Compounds	45.00
	Petroleum Products		
	(a) Liquid Petroleum Products(Diesel, Petrol, Inflammable Kerosine,Oils)	Physical Examination	6.00
		Colour - ASTM	6.00
		Water Content	10.00
		Sediments	14.00
		Chlorides	16.00
		Sulphated Ash	22.00
		Sulphur Content	20.00
		Acidity	8.00
		Alkalinity	12.00
		Metals - each by AAS	25.00
		Kinematic Viscosity	25.00
		Specific Gravity	7.00
		FlashPoint	23.00
		Fire Point	23.00
	Cloud Point	23.00	
	Pour Point	23.00	

		Distillation Range	35.00
		Octane Number	20.00
		Carbon Residue	22.00
		Saponification Value	13.00
		Unsaponifiable Matter	13.00
	(b) Solid Petroleum products (Petroleum Jelly, Grease)	Physical Examination	6.00
		Kinematic Viscosity	25.00
		Colour - ASTM	10.00
		UV-Fluorescence	6.00
		Free Alkalis	15.00
		Free Fatty Acids	13.00
		Sulphur Content	20.00
		Acidity	8.00
		Sulphated Ash	22.00
		Metals - each by AAS	25.00
		Metals – each by ICP - OES	30.00
		Saponification Value	13.00
		Unsaponifiable Matter	13.00
		Waxes	Physical Examination
	Ester Value		20.00
	Ester- Acid Ratio		20.00
	Specific Gravity		7.00
	Iodine Value		16.00
	Flash Point		23.00

		Fire Point	23.00
		Cloud Point	23.00
		Dielectric Constant	20.00
	Tallow	Physical Examination	6.00
		Free Fatty Acids	13.00
		Acidity	8.00
		Peroxide Value	13.00
		Iodine Value	16.00
		Saponification Value	13.00
		Unsaponifiable Matter	13.00
	Lime and Limestone	Physical Examination	6.00
		Loss on Ignition	22.00
		Silicates	14.00
		Acid Insoluble Matter	8.00
		Metals - each by AAS	25.00
		Metals – each by ICP - OES	30.00
		Chlorides	16.00
	Gypsum and Cement	Physical Examination	6.00
		Water of Crystallization	20.00
		Silicates	14.00
		Sulphates	13.00
		Metals - each by AAS	25.00
		Metals – each by ICP - OES	30.00
		Impurities	10.00

	Tobacco and Tobacco Products	Physical Examination	6.00
		Loss on Heating	22.00
		Free from Moulds and Weevils	6.00
		Total Alkaloids	25.00
		Total Nitrogen	25.00
		Total Ash	22.00
		Total Chlorides	16.00
		Nicotine Content by GC	45.00
		Nicotine Content by GC/MS	60.00
	Pesticides	Physical Examination	6.00
		Colouring matter	27.00
		Lassaigne Test	25.00
		FTIR/IR	25.00
		UV Visible	25.00
		Assay:	
		GC	45.00
		HPLC	55.00
		GC-MS	60.00
		Metal each by ICP-OES	30.00
		Metals - each by AAS	25.00
	Alkalis and Salts	Physical Examination	6.00
		Moisture Content	10.00
		Solubility	6.00

		Colour Test	10.00
		Melting Point	8.00
		Flame Test	6.00
		Action on Heat	6.00
		Assay :	
		Potentiometric	16.00
		Gravimetric	16.00
		UV Visible	25.00
		HPLC	55.00
		GC	45.00
		Metals – each by ICP-OES	30.00
		Metals - each by AAS	25.00
	Mineral Acids	Physical Examination	6.00
		Colour Test	10.00
		Solubility	6.00
		Specific Gravity	7.00
		Assay:	
		Potentiometric	16.00
		Gravimetric	16.00
		Metals – each by ICP - OES	30.00
		Metals - each by AAS	25.00
	Organic solvents / Compounds	Physical Examination	6.00
		Colour Test	10.00
		Boiling Point	6.00

		Specific Gravity	7.00
		Miscibility Test	6.00
		UV Visible	25.00
		FTIR/IR	25.00
		Assay:	
		GC	45.00
		HPLC	55.00
		UV Visible	21.00
	Paints and Dyes	Physical Examination	6.00
		Solubility	6.00
		Colour Test	10.00
		Melting Point	6.00
		Particle Size	12.00
		Opacity Test	6.00
		UV Visible	25.00
		UV-Fluorescence	6.00
		Specific Gravity	7.00
		Viscosity	23.00
		Assay:	
		Gravimetric	16.00
		Potentiometric	16.00
		Metals - each by AAS	25.00
		Metals – each by ICP - OES	30.00
		GC	45.00

		HPLC	55.00
		UV Visible	25.00
	Rubber and Plastic Chemicals	Physical Examination	6.00
		Solubility	6.00
		Melting Point	6.00
		Elasticity	12.00
		FTIR/IR	25.00
		Assay:-	
		GC	45.00
		FTIR/IR	25.00
		Biological Samples	Metals - each by AAS
	Metals – each by ICP - OES		30.00
	Pesticide Residues by GC		45.00
	Pesticide Residues by GC/MS		60.00
	Polychlorinated Biphenyls (PCBs)		45.00
FORENSIC AND TOXICOLOGICAL SAMPLES	Blood Stain on Clothes and Weapons	Physical examination	6.00
		Benzidine Test	6.00
		Takayama Test	6.00
		Precipitin Test	30.00
		Grouping	20.00
	Human Remains and Hair	Physical examination	6.00
		Precipitin Test	30.00
		Microscopic Examination	13.00

	Blood and Saliva	Benzidine Test	6.00
		Takayama Test	6.00
		Precipitin Test	30.00
		Amylase Test	6.00
		Grouping	20.00
	(a)Pure Swabs	Spermatozoa Identification	
		1.Extraction	25.00
		2. Microscopic Examination	13.00
	(b)Stained Clothes	Physical Examination (Tactile Test)	6.00
		UV - Fluorescence	6.00
		Walkers Test	21.00
		Grouping	20.00
	DNA ANALYSIS	1.Sample collection	30.00
		2. Paternity test/sample	60.00
		3. DNA for Forensic samples	
		a. Preliminary test/sample	80.00
		b. DNA extraction/sample	70.00
		c. PCR Analysis/sample	50.00
		d. Injection/Detection/sample	50
		2.0 Counselling	Free

		3.0 Expert witness	
		4.0 Sibling test/sample	60.00
		5.0 Disaster victims identification/sample	60.00
		6.0 Human identification/sample	60.00
		7.0 Sex identification test/sample	60.00
	Viscera , Stomach Content, Vomitus, Food remains, Contaminated food, Aspirates and Utensils	Physical Examination	6.00
		Preservative Qualitative Test	6.00
		Reinsch Test	14.00
		Cyanide Test	15.00
		Poisons Isolation	60.00
		Lassaigne's Test	25.00
		Paper Chromatography	30.00
		UV- Visible	25.00
		LCMS	60.00
		FTIR/IR	25.00
		Metals by AAS	25.00
		Metals by ICP-OES	30.00
		GC	45.00
		GC-MS	60.00
		HPLC	55.00
	Glucose test	7.00	
	Blood and Urine	Physical Examination	6.00
		Acetone Bodies by LCMS	60.00

		Salicylates by HPLC	55.00
		Alcohol by Titrimetric	25.00
		Alcohol by GC	45.00
		Poisons Isolation	60.00
		Paper Chromatography	30.00
		Lassaigne Test	25.00
		AAS	25.00
		ICP-OES	30.00
		GC	45.00
		GC-MS	60.00
		FTIR/IR	25.00
		UV- Visible	25.00
	(a) Seized Materials	Physical Examination	6.00
		Colour Test	27.00
		Microscopic Examination	13.00
		TLC	30.00
		HPLC	55.00
		UV- Visible	25.00
		GC	45.00
		GC-MS	60.00
		FTIR/IR	25.00
	(b) Samples Contaminated with Drug of Abuse	Physical Examination	6.00
		Colour Test	27.00

		TLC	30.00
		HPLC	55.00
		GC	45.00
		GC-MS	60.00
		UV- Visible	25.00
		FTIR/IR	25.00
	Gun Powder Residue	Physical Examination	6.00
		Sulphates	15.00
		Sulphites	17.00
		Nitrates	10.00
		Nitrites	10.00
	Explosives and Explosion Materials	Physical Examination	6.00
		Solubility	6.00
		Nitrates	10.00
		Ammonium	15.00
		Nitro-glycerine	15.00
		Nitrocellulose	15.00
		TLC	30.00
		UV- Vis	25.00
		HPLC	55.00
		GC	45.00
		GC-MS	60.00
	Arrow	Physical examination	6.00
		Preliminary Test (Sugar)	6.00

	Oubain Test (Extraction and identification)	30.00
Arson	Sampling and Chemical Test	200.00
Counterfeit and Forgery	Physical Examination	6.00
	Chemical Test	25.00
	UV- Fluorescence	6.00
	Abrasive Test	6.00
Paints, Flakes and Smears	Physical Examination	6.00
	Solubility	6.00
	TLC	30.00
	FTIR/IR	25.00
Glass	Physical Examination	6.00
	Refractive Index	13.00
Soil, Debris and Dust	Physical Examination	6.00
	Solubility	6.00
	Fineness Test	6.00
	Metals - each by AAS	25.00
	Metals – each by ICP- OES	30.00
	Microscopic Examination	13.00
Plant and Herbs	Physical Examination	6.00
	Chemical Test	25.00
	Chemical Isolation	30.00
	Microscopic Examination	13.00
	TLC	30.00

		FTIR/IR	25.00
		HPLC	55.00
		GC	45.00
		GCMS	60.00
		Data analysis and interpretation	10.00
		UV -Visible	25.00
PROCESSED SAMPLES FOR INSTRUMENTAL ANALYSIS	Clean Residues / Concentrates	Direct Instrumental Analysis:	
		GC	25.00
		FTIR/IR	10.00
		HPLC	41.00
		UV - Visible	21.00
		Metals - each by AAS	25.00
		Metal each by ICP-OES	30.00
		GC-MS	30.00
		OSA 4	50.00

4.0 SAMPLING COST

1. For less than 10 samples is \$150.
2. For more than 10 samples \$15 per sample.

5.0 SAMPLING CONTAINERS/BOTTLES

The prices for different types of bottle sizes are as shown below:

- Glass bottles Viscerea bottle (3000mls) @ \$28.00
- Glass bottles for Stomach wash (120mls) @\$4.00
- EDTA bottles for Body Fluid (28mls) @5.00

6.0 RESEARCH SAMPLES

These include:

- Raw samples for full analysis shall be charged as per price list Matrix;
- Raw samples brought to GCLA for full analysis, and requires participation of external analyst, shall be charged the normal price; plus 25%
- Processed samples for instrumental analysis, shall be charge based on the instrument charges,
- Collaborative Research charges will depend on bilateral agreement between parties involved
- For more than 100 samples brought by regular customers to GCLA for analysis, Service Level Agreement is encouraged

7.0 TRAINING SERVICES

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

8.0 COST OF CONSULTANCY SERVICES

The rates of the consultancy Services shall be:

- Local at the rate of 200 US dollars per day
- Foreign at the rate of 400 US dollars per day

9.0 EXPERT ADVICE

For matter requiring expert advice, the charges will range from 50 to 300 US dollars depending on the package of services requested.

10.0 EMERGENCIES

Charges for emergencies cases will depend on actual coast incurred to restore the situation and will be invoiced accordingly.

11.0 PRICE LIST REVIEW

The GCLA Price List shall be reviewed after every two years or at any time deemed appropriate by the Board.