











Supply, Delivery and Installation of Criminology Laboratory Supplies, Materials and Equipment





B. FORENSIC SUPPLIES AND EQUIPMENT

Item No.	Quantity	Picture	Description	Specification	Function	Amount	Total Amount
1	2 SETS		Master Firearms Detection Kit	<ul style="list-style-type: none"> 4 - Atomic Absorption Analysis Kits 4 - Latex, Powder-Free, Disposable Glove Pairs, Ambidextrous 4 - AA Cell Batteries, Alkaline 1 - Spray Bottle, 4 oz. 1 - Shortwave UV Light Source, 6V DC 3 - Trace Metal Reagents, 1 oz. 1 - Scanning Electron Microscopy (SEM) Collection Kit 1 - Carrying Case, Molded Copolymer with Molded, Plastic Inserts, at least 17.5" x 10.25" x 8.625" 	Kit for the investigation of any crime involving the use of firearms. Specific detection of primer residues (antimony and barium) and the determination of contact with a weapon (trace metal) can be performed.	90,000.00	180,000.00
2	3 SETS		Bullet/Forensic Comparison Microscope w/ CCD Camera and Software	<ul style="list-style-type: none"> <input type="checkbox"/> 9.7" LCD Pad Digital Camera, Android System, <input type="checkbox"/> Total Magnification 3.8x~230x <input type="checkbox"/> Wide Field Eyepiece WF10x/22mm, WF20x/12mm, High Eyepoint <input type="checkbox"/> 5 Step Zoom Plan Objective 0.8x, 1.25x, 2x, 3.2x, 4.8x <input type="checkbox"/> Auxiliary Lens 0.4x and 2.0x Included <input type="checkbox"/> Full left/right, split-image or overlapping image comparison <input type="checkbox"/> Magnification Correcting System, with Correcting Lens <input type="checkbox"/> Separation Line Adjusting System, with Special Designed Metal Adjust Driver <input type="checkbox"/> 12V50W Fan Cooling Strong Halogen Light, Brightness Adjustable <input type="checkbox"/> Can measure length, angle, area size, and more data <input type="checkbox"/> Can put your mark on any position on image <input type="checkbox"/> Can divide, connect, or overlapping two images in any angle or position freely <input type="checkbox"/> Can adjust color, wave band, gray scale, contrast, brightness, embossment, and many more parameters to show details of image clearly <input type="checkbox"/> Capture inspection result in real-time and create database <input type="checkbox"/> Crime Image Software can : <ul style="list-style-type: none"> <input type="checkbox"/> Remove Front Color <input type="checkbox"/> Multi-wave band adjustment effect <input type="checkbox"/> Illumination Adjustment to form 3D Image <input type="checkbox"/> Comparison of real and fake money <input type="checkbox"/> Color Replacement to eliminate background <input type="checkbox"/> HSI Parameter adjustment effect <input type="checkbox"/> HSV Parameter adjustment effect <input type="checkbox"/> Measuring effect, measuring angle <input type="checkbox"/> Color Negative Effect <input type="checkbox"/> Edge Detection <input type="checkbox"/> Exposure Adjustment Effect <input type="checkbox"/> Gray-scale expand adjustment effect <input type="checkbox"/> Motion Blur Restoration <input type="checkbox"/> Focus Out blur restoration 	<p>When a firearm, a bullet, and/or a cartridge case are recovered from a crime scene, forensic examiners compare the ballistic fingerprints of the recovered evidence.</p> <p>When the ballistic fingerprint on the test-fired bullet or cartridge case matches the ballistic fingerprint on the recovered bullet or cartridge case, investigators can conclude that the recovered bullet or cartridge case was also fired from the recovered gun.</p> <p>With this software you can overlay several live images, resize and independently rotate each of them. Match two firing pin marks with ease from live images or recall from a saved set.</p> <p>Check handwriting authenticity in a matter of seconds or determine whether two pieces of fabric belong to the same set</p>	450,000.00	1,350,000.00
3	5 UNITS		Digital Caliper	<ul style="list-style-type: none"> <input type="checkbox"/> Origin setting Resolution: 0.01 mm / 0.0005" <input type="checkbox"/> Repeatability: 0.01mm / 0.0005" 4 Way <input type="checkbox"/> measurement: Individual serial numbers <input type="checkbox"/> Power: 1 x Silver oxide battery SR44 - 1.55v Operating <input type="checkbox"/> temperature: 5 - 40°C <input type="checkbox"/> Relative humidity: Maximum 80% <input type="checkbox"/> Hardened stainless steel frame and measuring jaws Thumbroll adjustment Knurled locking screw Depth rod Clear LCD Display Large 11mm digits 	Use linear encoders to measure internal and external distances. This is then shown on a digital display. Available with metric and imperial conversions so you can accurately measure objects with ease. Measure in either inches or millimetres at the touch of a button.	10,000.00	50,000.00

4	2 UNITS		Bullet Recovery Capsule	<ul style="list-style-type: none"> packed with at least 8 pounds of non-flammable ballistic fibers to safely trap and recover rounds with velocities up to 1,535 fps. portable Dimensions: at least 66cm x 51cm x 25cm (26" x 20" x 10") 	This bullet recovery capsule is designed and used specifically for recovering handgun bullets for comparative analysis.	30,000.00	60,000.00
5	4 UNITS		Latent Print Kit	<ul style="list-style-type: none"> 1 pc 2oz Black Standard Powder 1 pc 2oz Dual Use Powder 1 pc 1oz Black Magnetic Powder 1 pc 1oz White Magnetic Powder 2 pcs Fiber Brushes 1 pc Magnetic Applicator 1 pc Roll 1.5" Clear Lifting Tape 25 pcs White Backing Cards 25 pcs Black Backing Cards Carrying Case (13.5" L x 10" D x 4.75" H) 	<p>Designed to offer the user a range of powders for use in any situation.</p> <p>There is powder for dark, light and multicolored surfaces, and lifting tape for single prints or palm prints.</p>	16,000.00	64,000.00
6	5 UNITS		Field Fingerprint Kit	<ul style="list-style-type: none"> Three 2-oz. jars of fingerprint powder (super black, white and red) Two 2-oz. jars of fluorescent fingerprint powder (red and orange) Two 1-oz. jars of fluorescent magnetic fingerprint powder (black and red) One 1-oz. jar of white magnetic fingerprint powder Two Feather Dusters Three Fiber Dusters One TEX magnetic fingerprint powder applicator with five disposable sleeves Individual 1.5" rolls of lifting tape (clear, polyethylene, and DIFF-Lift) Three white vinyl 6" rulers Two 2 cm. Mini-Rulers (black and white) Three 12-count 2" X 4" flap-lifters (black, white and clear) Latex gloves 10 ink-remover towelettes 100 ScaleLift 3" x 5" backing cards (50 black and 50 white) Three HotShots with 13" X 18" baggies to fume in One 3x dome magnifier One 2" BlackMagic fingerprint ink pad One MicroBlue One disposable fume bag chamber One pair of scissors 50 fingerprint elimination cards 	Used to develop, lift, I.D., view, record and much more with this Multi-Purpose Field Fingerprint Kit.	15,000.00	75,000.00

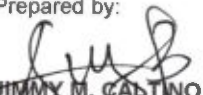
7	3 UNITS		Fingerprint Combo Kit (Lifting, Taking and Evidence Collection and ID)	Professional Latent Print Kit Contents: 1 - 2" Frosted Lift Tape 12 - 1.5" x 2" Clear Hinge Lifters 6 - 2" x 4" Clear Hinge Lifters 6 - 2" x 4" White Hinge Lifters 6 - 2" x 4" Black Hinge Lifters 6 - 2" x 4" White Rubber Lifters 6 - 2" x 4" Black Rubber Lifters 6 - 4" x 4" Clear Hinge Lifters 3 - Kit Size Fiberglass Brushes 3 - Spread Powder Brushes 1 - Black Latent Powder, 2 oz 1 - White Latent Powder, 2 oz 1 - Silver/Black Latent Powder, 2 oz 1 - Silver/Red Latent Powder 1 - 3" x 5" Backing Sheet Pad, 50 Sheets 1 - Attached Case Magnifier 1 - 5" Scissors 3 - Disposable Latex Gloves, Pairs 10 - 4" x 6" Evidence Bags 10 - Crime Evidence Labels 1 - Accessory Case 1 - Black, Molded, Attache-Style Polypropylene Carrying Case	• A brush applicators for powders • Multiple colored powders	20,000.00	60,000.00
8	4 UNITS		Master Magnetic Latent Print Kit	Kit Components: 1 ea. Master Carrying Case, 13" L x 8" W x 11" H, with foam insert and divider 1 ea. 1 oz. Jar Midnight Black Magnetic Latent Print Powder 1 ea. 1 oz. Jar Gray Magnetic Latent Print Powder 1 ea. 1 oz. Jar White Magnetic Latent Print Powder 1 ea. 1 oz. Jar Red Magnetic Latent Print Powder 1 ea. 1 oz. Jar Silver Magnetic Latent Print Powder 1 ea. 1 oz. Jar Dual Purpose Silver/Black Magnetic Latent Print Powder 1 ea. TEX Retractable Magnetic Wand 1 ea. 1.5" x 360" Lifting Tape, transparent, in plastic tube 1 ea. 2" x 360" Lifting Tape, transparent, in plastic tube 1 ea. 4" x 360" Lifting Tape, transparent, in plastic tube 1 ea. Retractable Blade Scalpel 1 ea. Reversible Latent Print Backing Card Pad, white, 50 cards/pad 1 ea. Reversible Latent Print Backing Card Pad, black, 50 cards/pad 1 ea. 2.5X Magnifier, 2.5" diameter 1 ea. L-Shaped Photomacrographic Scale 10 ea. Nitrile Barrier Gloves	Use magnetic powders for developing latent prints. This kit is supplied with 6 magnetic latent print powder colors, including the versatile Dual Purpose (bi-chromatic) powder, along with 3 sizes of lifting tapes and 100 backing cards. Also included are a retractable magnetic wand, a photomacrographic scale, a retractable blade scalpel, and a 2.5X magnifier.	50,000.00	200,000.00

9	2 UNITS		Zoom Monocular Microscope with cubicle	<ul style="list-style-type: none"> • Zoom microscope objective: 0.7X-5.0X • Mount: 0.4X C-mount • Working distance: 4-1/8" (105mm) • Field of view: 1/2"x1 1/16" (12.9mm X 17.1mm) to 5/64"x3/32" (1.8mm X 2.4mm) • Power input: 110-240V, 50-60HZ, auto switching • Metal stand dimension: 13"x10" • Pillar: 11" (280mm) long <p>Camera Specifications:</p> <ul style="list-style-type: none"> • Live-view only -- does not record; • Sensor: CMOS; • Sensor Size: 1/2.8 inch • Video: 1080p60Hz/50Hz; • Interfaces: HDMI; • Optical Port: Standard C-mount • Power Supply: DC 5V; • Operational Temperatures: 0 - 50°C • Dimensions: 66mm x 66mm x 80mm • Adjustable white balance, brightness, sharpness • Automatic or manual focus; • Weight: 420g <p>Features:</p> <ul style="list-style-type: none"> • 0.7X-5.0X zoom objective; • C-mount lens; • Long working distance • Sharp images over a super wide field view; • Stable, all-metal pillar-stand • Cool, even 96-LED lighting; • Auto-focus 1080p camera <p>Packing List :</p> <ul style="list-style-type: none"> • One monocular zoom microscope; • One focusing rack; • One pillar plate stand • One dust cover; • One 96-LED Ring Light; • One lighting control module • One camera body; • One USB mouse; • HDMI cable; • power supply • Shipping Weight: 16 lbs <p>Unit Specifications:</p> <ul style="list-style-type: none"> • Base: 20.188" wide x 19.125" deep with matte black powder coated steel and screen printed grid • Column: 36" tall with steel spring and rotational control • Weight: 42.5 lbs. (19.3 Kg) <p style="text-align: center;">Desktop Computer Specifications:</p> <ul style="list-style-type: none"> • Windows 32-bit, or Windows 7 64-bit • Intel Core i3 3.3 Ghz processor • 4 gigabyte (GB) of system memory • 500 GB SATA Hard Drive • DVD/CD-ROM drive • 23" monitor with 1920 x 1080 resolution • Dedicated GigaNET Base T Network Interface Card <p>Kit Contents:</p> <ul style="list-style-type: none"> 1- Imager w/KSS100b 60mm, quartz UV Lens 1- 2048 x 2048 PPI Camera with 1.2" sensor 1- Dual Filter Slide Assembly (Visible and UV) 1- Desktop Personal Computer, Keyboard, Mouse 1- 23" monitor 1- Power Strip 1- Ethernet Cable 2- 3-watt narrow band 254nm Lights 2- UV Protection Spectacles 1- Photo Evidence Scales (white on black, 10-pk) 1- Operator's Manual 	<p>This is an auto-focus inspection system, with .7X to 5X optical zoom. A 96-LED ring-light, and a 1080p 60Hz digital camera with built-in auto-focus. The microscope produces a highly-detailed image which, when coupled with the auto-focus camera, provides a lag-free, high-definition video stream over HDMI.</p>	100,000.00	200,000.00
10	3 UNITS		Fingerprint Powder Station @36"(installation and set up included)	<p>at least 36" wide 145 CFM Airflow 18 Watt Light Low Air Flow Monitor UV Lighting Available Removable Polypropylene Spill Tray Centrifugal Fan Epoxy Coated Steel Construction</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Powder Station maintains a constant face velocity of 80 FPM at the work <input type="checkbox"/> Contaminated air is pulled through the Multiplex filtration system where activated carbon adsorbs chemical vapors and/or particulates if HEPA/ULPA filters are used. <input type="checkbox"/> Clean air is returned to the room. The main filter is easy to replace, no tools required. The filter clamps tightly against the filter gasket to prevent filter bypass and maintain filter integrity. 	161,666.67	485,000.00

11	5 UNITS		Post Mortem Kit	<p>Included in the Kit:</p> <ul style="list-style-type: none"> 12 Record Strips, L/H, Standard 12 Record Strips, R/H, Standard 12 Super Cleaner Towelettes 1 Postmortem Inking Tool 1 Postmortem Finger Straighteners 1 Postmortem Record Strip Holder 1 Black, Molded Copolymer Case 	Fingerprinting bed patients, individuals with crippled hands or the deceased can present unique challenges. These supplies were designed to simplify the process of fingerprinting these individuals, without the need to straighten the fingers. This kit contains all the components needed for fingerprinting the deceased and infirm. It includes a set of finger straighteners, a postmortem inking tool, a postmortem record strip holder and a handy carrying case.	6,000.00	30,000.00
12	10 UNITS		Fingerprint Magnifier	<ul style="list-style-type: none"> <input type="checkbox"/> The all-aluminum frame <input type="checkbox"/> 3.5x magnification. <input type="checkbox"/> 2" minimum circumference 	This high quality magnifier features an exceptionally wide field of view. Focusing is quick and simple using the thumbscrew locking adjustment.	5,000.00	50,000.00
13	50 ITEMS		Foldable Linen Tester/ Fingerprint Magnifier	<ul style="list-style-type: none"> <input type="checkbox"/> 5x power optical quality lens. <input type="checkbox"/> Triple fold type <input type="checkbox"/> Base has inch and metric scale. Portable and foldable. Measures at least 2.25" W x 1.5" L x 0.5" T when folded down 	Power optical quality lens. Triple fold type provides flat field viewing without distortion. Ideal for ridge counting or biological applications. Provides sharp clear image with fold-out durable construction.	1,000.00	50,000.00
14	2 units		Polygraph Instrument (One (1) Analog and One(1) Digital)	<p>Features:</p> <ul style="list-style-type: none"> • High resolution 24-bit analog-to-digital conversion circuitry • Records up to 13 channels • Medical grade LEMO and Luer inputs and connectors • Use either electronic or pneumatic respiration pneumograph • Use either Skin Conductance or Skin Resistance • Cardiograph supports up to 200 mm Hg. • Plug and Poly via a USB 2.0 connection. No driver installation is required. • Use with current easy-to-use, powerful, and feature rich CPS software • CPSpro allows you to quickly, easily and accurately measure. • Thoracic Respiration Channels <ul style="list-style-type: none"> • Records thoracic respiration using either classic bellow-styled pneumograph or electronic pneumograph • Abdominal Respiration Channels <ul style="list-style-type: none"> • Records abdominal respiration using either classic bellow-styled pneumograph or electronic pneumograph • Cardio Channels <ul style="list-style-type: none"> • Blood Pressure—Records relative blood pressure and pulse rate. Cardiograph provides continuous digital display of subject's pulse rate and cuff pressure, eliminating the need for a pressure gauge on the cardio tubing. Optimal cuff pressure is pressure is between 52 and 62 mm Hg for subject comfort. Range is 0 to 200 mm Hg. CPSpro Fusion software implements a continuous digital display on your computer screen of subject's pulse rate and cuff pressure that eliminates the need of a sphygmomanometer • Finger Cuff—Records blood volume and pulse rate from an occlusive finger cuff. Range is 0 to 200 mm Hg. 	The System includes Abdominal and Thoracic mechanical bellow styled pneumograph assemblies, 3 EDA leads (one with Gold-plated finger plates, one with snap leads and one a package of snap Ag/Cl repositionable, disposable gel leads, and one with laboratory style cups with a bottle of gel), cardio cuff assembly, and seat movement sensor. Foot and arm movement sensors, plethysmograph (PLE), and other additional components can be purchased and added separately	650,000.00	1,300,000.00

			<ul style="list-style-type: none"> • Plethysmograph—Records pulse rate and blood volume changes from the fingertip using a photoelectric sensor. EDA Channels • Skin Conductance—Records electrodermal activity using a low constant voltage circuit (0.5V) • Skin Resistance—Records electrodermal activity using a low constant current circuit (2.5µA) • Aux 1 (Skin Potential)—Records the electrical activities of the sweat glands themselves, with no external voltage applied to the skin. Miscellaneous Channels • Activity Monitor—Records subject body movements from an activity sensor pad for seat, feet and/or arms. (Laptop) • Voice Marking Channel—Records the exact moment of question onset and offset (examiner), and the moment of answer (subject). • Aux 2—This channel can be configured to record Pupil diameter, Skin Temperature, EKG, continuous blood pressure, or others. • Polygraph paper and ink 			
					TOTAL	4,154,000.00

Prepared by:


JIMMY M. CALINO
 Chairperson, Criminology Department

Certified Correct:


FAMELA IZA C. MATIC
 Member, Technical Working Group


V-JAY S. EUSEBIO
 Member, Technical Working Group


ORLANDO B. DELOS REYES
 Chair, Technical Working Group