

Harga Perkiraan Sendiri
Pengadaan Alat Laboratorium Fakultas Perikanan dan Ilmu Kelautan Universitas Padjadjaran

No	Nama Alat	Spesifikasi	Volume	Satuan	Harga Satuan	Jumlah
1	Mikroskop binokular	Head : Binocular 30° inclined and rotatable 360° Eyepieces : 10x 20mm FOV Nosepiece : Reversed, quadruple Objectives : Plan Achromat 4x, 10x, 40x, 100x Oil Condenser : 1.25 N.A. Stage : Rackless mechanical stage Focusing : Coaxial coarse/fine focus system with limit stopper and torque adjustment Focusing : Coaxial focusing system with an adjustable tension control and upper limit stop to prevent accidental damage to slides; all metal gears, brass fine focus gear Illumination: LED Illumination variable with cord holder	6	Unit		
2	Mikroskop yang dihubungkan dengan kamera	Viewing Head (inch) 10 display screen Illumination LED Illumination, Brightness Adjustable Objective Plan Achromatic Objective : 4x, 10x, *20x, 40x, 100x Nosepiece Quadruple Nosepiece/*Quintuple Nosepiece Stage Double Layers Mechanical Stage 120X115mm/ 70X30mm Condense Abbe Condenser N.A. 1.25 with Iris Diaphragm & Filter Focusing System Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 20mm Video Adapter C Mount 0.5x	1	Paket		
3	Laminar Air flow untuk pengerjaan Bakteri dan Virus	Spesifikasi laminair air flow : 1. Dimensi : 120x85x120 cm 2. Rangka : Plywood di lapi High Pressured Laminated (HPL) 3. Dinding Luar : Plywood di lapi High Pressured Laminated (HPL) 4. Dinding Dalam : Plywood di lapi HPL (High Presured Laminated) 5. Top Meja / Meja Kerja : steinless 304 6. HEP filter ukuran 305x305 efisiensi 99,999 % Sertificate 7. Blower / Fan merk CKE 1/4 hp 8. System Instalasi Listrik : Broco, Philips dan Kabel Standard Indoensia (Eterna) 9. Penerangan di tempat kerja dengan lampu TL (18 watt), Warna putih dan disesuaikan untuk netral pada saat bekerja dan lampu UV (15 watt). 10. Sash pintu kaca, dengan naik turun max 55 cm dan tebal kaca 5 mm	1	Unit		

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4	Neraca Analitik	Maximum Capacity 220 g Readability 0.001 g Pan Size 120 mm Item Number 30428794 Internal Calibration InCal™ - Semi Automatic Draftshield Included Auxiliary Display Model Available as an Accessory Battery Life Not Applicable Communication RS232; USB Dimensions 309 mm x 321 mm x 209 mm (HxLxW) Display 2-Line LCD with Backlight In-use cover Included Net Weight 10 lb (4.5 kg) Pan Construction Stainless Steel Power AC Adapter (Included) Stabilization Time 2 s	1	Unit		
5	Inkubator shaker	Precise Shaking Incubators, ThermoStable™ IS-30, Front Door-type, up to 60C, 0.2C with Universal Platform, Fuzzy Control, Orbital Motion, Advanced Shaking Mechanism, Precise Speed Control, 30~250 rpm	1	Unit		
6	Inkubator Rack	Laboratory Equipment Test Tube Rack Stainless Steel Tube Rack (d=16mm), 50 wells, KJ-812	2	Unit		
7	Freezer -20oC	Dimension : 1105 x 625 x 845 mm Temperature : ≤ -20°C Capacity : 350 Liter Power : 220 Watt Refrigerant : R290 Voltage : 220 V/50Hz Weight : 43Kg	1	Unit		

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8	Refrigerator	type : Hand Tool Parts gin : Mainland China Place Of gin : Shandong, China Brand Name : Biobase Model Number : Bpr-5V100(G) Instrument Classification : Class Ii : 1 Year After-Sale Service : Online Technical Support Product Name : 2~8 Celsius Laboratory Refrigerator Capacity : 100L Temperature Range : 2~8 Temperature Accuracy : 0.1 Control System : Microprocessor Control Alarm : Audible Andvisual Alarm Refrigeration Type : Forced Air Refrigeration System Refrigerant : R600A Climate Type : N, Sn Gross Weight : 61Kg	1	Unit		
9	Thermal Cycler (Mesin PCR)	Classification: Laboratory Thermostatic Devices Capacity: 3*(32*0.2ml)Tube: 0.2ml single tube Temperature Range: 0-100°C Uniformity: ≤±0.2°C Accuracy: ≤±0.3°C Display Resolution: 0.1°C Temperature Control: Block\Tube MAX. Heating Rate: 4.5°C/s MAX. Cooling Rate: 4°C/s Ramping Rate Adjustable: 0.1-5°C Number of Programs: 10000 +(USB FLASH) Hot Lid Temperature: 30~110°C	1	Unit		

No	Nama Alat	Spesifikasi	Volume	Satuan	Harga Satuan	Jumlah
10	Mikrosentrifuga	<p>Specifications of D3024</p> <ul style="list-style-type: none"> - Max. Speed : 15000rpm(200-15000rpm), increment:10rpm - Max. RCF : 21380g, increment:10g - Speed Accuracy : 20 rpm - Rotor Capacity : 5mL18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mL24, 0.5mL36, PCR84 - Run Time : 30sec-99min/Continuous - Motor : Brushless DC moto - Safety Devices : Dual door interlock, Over-speed detection, Automatic internal diagnosis - Power : Single-phase,AC220V-240V, 50Hz/60Hz, 5A, AC110V-120V, 50Hz/60Hz, 8A 200W - Acceleration / Braking time [Sec] : 25s25s - Dimension [DWH] : 280364266mm - Weight : 12kg - Certification : CE cTVus FCC MCA - Advanced Features : Speed/RCF switch; Short-time run function; sound-alert function - Noise Level : 64dB 	1	Unit		
11	Chamber Elektroforesis	<p>Tangki Elektroforesis Horizontal</p> <p>Ukuran: 9 x 20 x 6 cm</p>	1	Unit		
12	Microwive	<p>Range Temperature : Suhu Kamar +10~ 250°C</p> <p>Akurasi : 0.2°C</p> <p>Dimensi Dalam (PxLxT) : 415 x 370 x 340 mm</p> <p>Dimensi Luar (PxLxT) : 560 x 540 x 680 mm</p> <p>Vacuum : 133pa</p> <p>Voltase : 220 V</p> <p>Daya : 1400 W</p> <p>Timer : 0-9999mnt</p>	1	Unit		

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13	Autoklave	Spesifikasi Produk : VOLUME : 75L CHAMBER SIZE : 400*625mm DIMENSIONS mm : 575*565*1080 BASKET DIMENSION : 360*280mm BASKET UNIT : 2 VOLTAGE LEVEL : 220V/50HZ RATE PRESSURE : 0.22MPa RATE TEMPERATURE : 50-134°C POWER : 4.5KVA	1	Unit		
14	Spektrofotometer	WL Range : 200 - 1000 nm WL Accuracy : 2 nm WL Repeatability : 1 nm Spectrum Bandwidth: 4 nm Transmittance Accuracy : +/-0.5% (t) (NBS930D) Transmittance Repeatability : 0.2% (t) Transmittance Measuring Range : 0 - 100 T Absorbance Measuring Range : 0 - 2 A Stray Light : 0.3% (t) At 220 nm, NaI Drift : 0.5% (t)/ 3mnt Signal Noise : 0.2T% Cell Holder : 10 mm Voltage : 220VAC/50HZ Power : 150 W	1	Unit		

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15	Nanodrop	<p>Optical Geometry: Reflec di:8°, de:8°(diffused illumination, 8-degree viewing angle) Integrating Sphere Size: 48mm Light Source: Combined LED Light Spectrophotometric Mode: Concave Grating Sensor: 256 Image Element Double Array CMOS Image Sensor Wavelength Range: 400-700nm Wavelength Interval: 10nm Semiband Width: 10nm Measured Reflectance Range: 0-200% Measuring Aperture: Customized A8mm/4mm/1×3mm Specular Component: SCI&SCE Color Space: CIE Lab, XYZ, Yxy, LCh, CIE LUV, Hunter LAB Color Difference Formula: ΔE^*ab, ΔE^*uv, ΔE^*94, $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*00v, ΔE(Hunter) Other Colorimetric Index: WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925, ASTM 313),TI(ASTM E313, CIE/ISO), Metamerism Index MI, Staining Fastness, Color Fastness, Color Strength, Opacity, 8° Glossiness Observer Angle: 2°/10° Illuminant: D65, A, C, D50, D55, D75, F2, F7, F11 Displayed Data: Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Offset Measuring Time: 2.6s Repeatability: MAV/SCI: $\Delta E^* \leq 0.05$ Inter-instrument Error: MAV/SCI: $\Delta E^* \leq 0.2$ Measurement Mode: Single, Average Testing Method: Custom Vision Filter</p>	1	Unit		
16	UV Transiluminator	<ol style="list-style-type: none"> 1. Panjang Gelombang: 470nm 2. Ukuran Gel: 100 * 160mm 3. Dimensi: 210 * 210 * 30mm 4. Berat Bersih: 2.3kgs 5. Power DC: 24V 0.65A 	1	Unit		

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17	Waterbath	Controller: PID Sample Hole: 2 Range Temp.: RT +5~100°C Temp. motion: ± 0.5°C Temp. Resolution: 0.1°C Temp. uniformity: ± 1°C Capacity: 6L Operation function: Fixed temperature operation, timing function, aut stop Timer: 0-9999 min Safety: Over temperature alarm Sensor: NTC Chamber Dimension: 300x135x150mm Product Dimension: 318x168x210mm Chamber Material:SS 304 Voltage: 220V / 50Hz Power: 500W	1	Unit		
18	Hotplate with magnetic stirrer	Specification Max. Volume 3000mL or 3L Stir Speed : 100 - 2000 rpm Temperature Range : up to 380c Exterior: Cast aluminium, Surface spraying Plate Size : 170 x 170mm Power : 220V/500W	1	Paket		
19	Blower	Power: 60 watt Air Flow: 6600 liter/jam Pressure: 0.032 Mpa Air Divider Outlets: 30ways (3 x 10 cabang = 30 cabang) Dimension: 30x23x22cm (PxLxT) Dilengkapi peredam suara dan filter penyaring debu	2	Unit		
20	Akuarium	Bahan : Fiber Glass Tebal : 3 mm Volume 60 liter Ukuran : 600 x 300 x 360 mm	50	buah		
21	Bak Fiber	Bak Fiber 150x100x50cm sekat filter 20cm dengan 4 chamber dan sudah termasuk pembuangan Volume 500 Liter	4	buah		

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22	Curren Meter	<p>Batang telescoping 1,2 meter, tas pembawa dan dua sensor aliran; satu untuk air dan satu lagi untuk udara.</p> <p>Spesifikasi :</p> <p>Flowatch Kit Berat (Unit Display): 8,3 oz (230 g)</p> <p>Dimensi (Unit Tampilan): 2,5 " 2,5" 5,1 "(6,4 6,4 13 cm)</p> <p>Dimensi (Termasuk Kasus): 25 " 13.5" 3.5 "(63.5 34 9 cm)</p> <p>Flow Speed Unit: km / jam, mph, knot, m / s dan cm / s</p> <p>Kecepatan Arus Akurasi: +/- 5% dari - 10 hingga + 50 C</p> <p>Rentang Kecepatan Aliran: 2 hingga 150 km / jam</p> <p>Temp Unit: C, F dan windchill</p> <p>Temp Accuracy: +/- 1</p> <p>Fungsi Temp: Arus, minimum, rata-rata, suhu maksimum dan faktor windchill</p> <p>Kit Termasuk</p> <p>Data umum:</p> <p>Bidang aplikasi:</p> <ul style="list-style-type: none"> - Ukur aliran sungai - Arus laut - Aliran limbah - Studi hidrologi - Cerobong asap - Saluran irigasi - Saluran AC - Poros ventilasi - Studi aerologis 	1	unit		
23	Snorkel	<p>Spesifikasi :</p> <ol style="list-style-type: none"> 1. Quick clip attachment to mask strap;easy; 2. clip release; 3. quick tube release; 4. vertical adjustments; 5. 360° vertical rotation; 6. 360°horizontal rotation 7. 100% Superdry Top (patented). 8. Long semi-rigid breathing tube, with bottom relief valve for instant purging. 9. "Multi Clip" with special new tube clip. 	5	unit		

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24	Wetsuit	<p>Reef Mens Monosuit is a thinner 3 mm, full-length, steamer suit to protect you while snorkelling or diving in warmer waters and months from marine bumps and scrapes plus the tropical sun. Soft and flexible neoprene allows you to move in the water without being bulky or requiring a lot of lead to get down.</p> <p>Reef Steamer has long arms and long legs which will also protect you from sunburn and stingers. It has a rear Zip closure that is durable and will last with the correct care. Cut specifically for the Male body, this Mares Reef steamer hugs the body in all the right ways and in the right areas. Making sure a wetsuit fits correctly is a huge must as if it is too big then it defeats the purpose as a wetsuit is designed to be a second skin and be as tight as possible.</p> <p>Ukuran L (5 buah) Ukuran M (5 buah)</p> <p>FEATURES.</p> <ul style="list-style-type: none"> - New, modern design with shoulder grip area - Cool, stretchy and ideal for temperate water - Ergonomic, comfortable Velcro closure and back zip puller - Wrist, ankle and neck seals enriched with Aquastop finish - Also suitable for multiple watersports 	10	Buah		

No	Nama Alat	Spesifikasi	Volume	Satuan	Harga Satuan	Jumlah
25	Scuba tank	<p>Durable, Long-lasting, Safe Scuba cylinders Our cylinder is made of Proprietary 6061 alloy, which is a balanced aluminum-magnesium-silicon blend. All Cylinders are cycle-tested over 100,000 times at service pressure to ensure the best endurance and reliability throughout the usage of the cylinder. Testing pressure up to 2.5 times service or working pressure. Made in USA, manufactured to US DOT standard (Department of Transport) Corrosion-resistant interior and exterior with Thick, damage-resistant walls. Working pressure 3300psi while most existing cylinders has 3000psi working pressure*. That's 10% higher then other cylinders. Each cylinder comes with certificate of material and DOT requirement standard. Choice of Standard and Neutral-Balance cylinder. Nitrox ready** : Semua tabung kami siap untuk menggunakan Nitrox hingga 40%**.</p> <p>Service Pressure : 3000 psi / 207 BAR Air Capacity : 77.4 ft³ / 2798 Liter Diameter : 7.3" (inch) / 18.41 cm Lenght w/o Valve : 26.06" (inch) / 66.19 cm Empty Weight : 31.3 lbs / 14.2 kg Water Volume : 678.0 in³ / 11.1 Liter Weight w/o Valve : 24.44 lbs / 11.09 kg Buoyancy at Sea (Full) : -1.4 lbs / -0.64 kg Buoyancy at Sea (Half) : 1.5 lbs / 0.68 kg Buoyancy at Sea (Empty) : 4.4 lbs / 2 kg Thread Size : 0.750-14 NPSM M25 x 2.0</p>	10	Buah		

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26	BCD	<p>Ukuran M,L dan XL</p> <p>LIGHTWEIGHT- Weighing only 5kg in size S/M, the Magellan BCD delivers 18.5kg of lift.</p> <p>- ROBUST CONSTRUCTION - The body of the BCD is constructed from rugged 420 Cordura Nylon with Radio welded seams ensuring long-term durability. The weight pockets are reinforced with tough polyester and ABS plastic ensuring the don't fail, even after years of diving.</p> <p>- SIMPLE INTEGRATED WEIGHT SYSTEM - The Magellan features integrated weight system using quick releases for easy adjustable of weight.</p> <p>- WEIGHT POCKETS - Included weight pockets vary in size depending on the size of the BCD. XL includes two 13lbs (6kg) capacity pockets and 9lbs (4kg) for the M/L and XS/S.</p> <p>- BACK MOUNTED TRIM WEIGHT – The Magellan allows for rear mountain weight pockets, allowing you to distribute weight around your body more evenly.</p> <p>- LARGE FOLDING POCKETS - A large folding and self-draining pocket is positioned on the right side of the cumberbund to store important items.</p> <p>- ALUMINIUM D-RINGS- Two 40mm D-Rings below the weight pockets, and two 25mm D-Rings on the shoulder straps.</p> <p>- 3 Pull-Dump/Overpressure Relief Valves - The Magellan features 3 pull-dump valve</p> <p>WEIGHT BCD: XSS/XS = 2,3kg / S/M = 2,3kg / L/XL = 2,4kg BUOYANCY BCD: XSS/XS / S/M / L/XL = 180N (18,3kg)</p>	10	Buah		
27	Regulator Selam	<p>Stainless steel springs</p> <p>Piston Regulator 1st STAGE</p> <p>Maximum working pressure 3,500psi(232bar)</p> <p>Intermediate pressure output 135-145PSI</p> <p>Four 3/8-24 UNF-2B intermediate pressure ports</p> <p>One 7/16-20 UNF-2B high pressure port</p> <p>Chromium plated brass body</p> <p>Stainless steel springs</p> <p>Weight : 727 gram</p>	10	Buah		

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28	Ekman Grab	Standard size L152xD152x152cm PROTIRTA Complete with stainless steel sling plastic coated, messenger and PVC carrying case HIGH QUALITY EKMAN GRAB SAMPLER LEG-150S EKMAN GRAB SAMPLER/BOTTOM GRAB SAMPLER Model LEG-150S [Standard Size] Ukuran box : 152x152x152mm/6"x6"x6" Volume capacity 3.5iters Fiture • Scoops overlap to reduce samples loss • Dependable release closing • Stainless steel construction • Lightweight yet stable due to wide base • Extra weight available • Center pivot for low bottom disturbance • 20meter line with steel sling coater plastic for strong Ekman Grab Sampler • Ekman Grab sampler LEG-150S ready to use with assembly • Complete with Heavy Duty PVC carrying Box rush resistant even in sea water EKMAN GRAB SAMPLER/BOTTOM SAMPLER LEG-150S Model : LEG -150S (Standard Model) Box size : 152 X 152 X 152 mm (6" x 6" x 6 #34;) Volume of box : 3.5 L Weight : 3 Kg Sample area : 232 cm2 Include : Line 20meter steel sling with plastic coated. Massagers 500gam and PVC Carrying Box	1	Buah		
29	Regulator Selam	Tahap Pertama (First Stage): Model: MR12 dengan desain diafragma seimbang (balanced diaphragm). Sertifikasi: Bersertifikat CE EN 250:2000 untuk penggunaan hingga kedalaman 50 meter. Kesesuaian Air Dingin: Memiliki sertifikasi tambahan untuk penyelaman di air dingin (<10°C) oleh RINA 0474. Tahap Kedua (Second Stage): Material: Konstruksi sepenuhnya dari logam untuk meningkatkan daya tahan dan kinerja. Desain Kompak: Ukuran kecil dan ringan untuk kenyamanan selama penyelaman. Tombol Purge Besar: Dilengkapi dengan tombol purge yang diperbesar untuk memudahkan penggunaan	5	Buah		
30	Octopus	prevents free flow in the event of strong currents and is made of durable rubber that can withstand over 113,000 venting cycles. The patented Mares Vortex Assisted Design (VAD) system combined with the Fluid Dynamic Deflector (FDD) allows for natural breathing at all depths.	5	Buah		
31	WWeight Belt	bahan Stainless Steel Webbing Diving Weight Belt Features: - Approx 1.35m heavy duty 50mm webbing - Sturdy, reliable stainless steel buckle - For use with Lead Blocks	5	Buah		

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32	Fin	<ul style="list-style-type: none"> - Comfortable Foot Pocket - Rubberized Side Ribs - Blades Construction Optimizes Efficiency - 2 Channel Design For Added Propulsion - Durable Constraction - Constructed for optimum efficiency and maximum propulsion - Super-soft foot pocket keeps you comfortable all day long - Durable construction for years of use - Ideal entry-level swim fin for snorkelers, divers, and swimmers - Speed through the water like a dolphin - Ukuran disesuaikan dengan kebutuhan 	5	Buah		
33	Google kaca mata selam	<p>Ukuran M = 5,L= 5</p> <p>Bi-material frame</p> <ul style="list-style-type: none"> - Medium-sized silicone face piece - Wide viewing angle - Possibility of optical lenses" <p>Optical lenses are available for this model, with negative diopters from -1.0 to -7.0 and positive diopters from +1.5 to +3.0</p> <p>Masker Kacamata Selam Scuba Dive</p>	10	Buah		
34	Refrakto Salinometer	<p>Master - S28M (Cat.No2483)</p> <p>Measurement Range: Salinity: 0 100, Proportion: 1.000 1.070 Minimum Scale: Salinity: 1, Proportion: 0.001 Resolution: Salinity: 1 Proportion: 0.001 Material: Aluminum</p>	2	Buah		
35	DO meter	<p>DO Range: 0 ~ 20.0 mg/L Oxygen in air: 0 ~ 100.0% Temp range: 0 ~ 50°C RESOLUTION: DO Range: 0.1mg/L Oxygen in air: 0.1% O2 Temp range: 0.1°C ACCURACY: DO Range: 0.4 mg/L Oxygen in air: 0.7% Temp range: 0.8°C Power Supply: 1× 006P DC 9V battery</p> <p>Dimensions: Main unit: 180 x 72 x 32 mm Oxygen probe: 290×28mm dia Weight: 335g</p> <p>FEATURE: *High precision DO mesurement. *Dual function meter and display.</p> <p>*Polarographic type oxygen probe. *Auto temperature compensation. *Memory recall. *Auto power-off. *Built-in temperature. * Sensor structure : The polarographic type oxygen probe with incorporated temp sensor. </p> <p>ACCESSORIES (termasuk): 1× Oxygen probe (OXPB-11) 1× Carrying case 1× Operation manual. 2× COXHD-04 Spare probehead diaphragm 1× OXEL-03 Probe filling electrolyte</p>	2	Buah		

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36	pH meter	pH - 0 to 14.00 pH, \pm 1999 mV mV function for ORP electrode Manual temperature compensation ATC via temp. probe TP07 RS232, Hold, Record (Min/Min), °C/ °F Push button calibration Water resistant front panel Accuracy \pm 0.02 pH \pm 2 digit. * Professional pH/mV METER. pH range : 0 to 14 pH x 0.01 pH. mV range : -1999 mV to 1999 mV. * The instrument is with mV (millivolt) function for mV measurement (Be plugged with optional ORP probe ORP-04 to be a professional ORP meter) pH meter specifications Measurement Measuring Range Resolution Accuracy pH 0 to 14 pH 0.01 pH (0.02 pH + 2 d) * Meter only mV -1999 mV to 1999 mV 1 mV (0.5% + 2 d) * Meter only Standard Accessories : - Instruction manual - PE-03 PH Electrode Optional Accessories : - ATC temp. probe, TP-07 - ORP electrode, ORP-14 - Hard carrying case, CA-06 - Buffer Solution Lutron PH-04 - Buffer Solution Lutron PH-07 - USB-01 USB Cable - Data Acquisition Software, SW-U801-WIN	2	Buah		
37	Scidis	Bahan Hitam Putih Heavy Plastik tebal Diameter 280- 300 mm termasuk tali	2	Buah		
38	Botol Water sempler	Material : Bottle PVC with thick 4.5 mm, Vertical, End Seal (high quality nylon plastic), Air/drain valve (Plastic MC), Trip Assembly (High Quality Nylon and Stainless steel), Cable Assembly (Stainless Steel) and Line approx 20meter / can be requested when order Bottle Dimensions Capacity : 5.0liter Bottle diameter : 11 cm Bottle length : 75cm Complete with	2	Buah		
39	Digital Microscope	include 4 fully achromatic objective lenses, a mechanical stage, a 4.3" TFT color LCD touchscreen, a 5-megapixel CMOS sensor, and a 2-GB SD card for storing captured images. Magnification from 40x to 400x (x with 4x digital zoom) makes TetraView ideal for viewing a range of cellular specimens on slides. Rotate the LCD screen up to 180 to share images with others. For a bigger audience, use the TV output to display images on a television or projector. Advanced and affordable, the Celestron TetraView is an excellent tool for classrooms, labs, and serious hobbyists. * Still or video image capture and storage * Quadruple nosepiece with 4x, 10x, 20x, and 40x objectives * Total magnification from 40x to 400x (x with 4x digital zoom) * 2-GB SD card - SD slot supports up to 32-GB card * 3-1/2 x 3-1/2" mechanical stage for easy slide scanning * Coarse- and fine-focus adjustments * Filter wheel with 3-position diaphragm * 2.0 USB cable to upload images to a computer * Universal AC adapter; also accepts 4 AA batteries (not included) for field use * Includes 7 prepared slides, touchscreen pen, carrying case, video cable, and dust cover * Two-year limited warranty * Size, 13" H x 5-1/2" W x 7" D; wt, 4 lb	1	unit		

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40	Autoclave	Valid volume : 50L Working pressure : 0.22Mpa Working temperature : 134C Max. Working pressure : 0.23 Mpa Heat average : 1C Timer : 0 ~ 60min Adjustment of temperature : 105 ~ 134C Overall dimensions : 560 x 560 x 980 mm, 590 x 590 x 1080 mm	1	unit		
41	Rotary Evaporator	Evaporator: Type of cooling vertical condenser Collect flask 1000ML, Rotary Flask 2L Motor Power 40W Bath power 1000w Bath Material Stainless steel combined bath. Sealing Teflon + Fluorelastome . Evaporation rate 2L/ H Chiller: Electrical requirements watts Compressor Make: Embraco Number of compressor: one Refrigerant: R404A Cooling capacity at 0C/32F: 400 W Recirculating pump Output: 15 watts Pumping speed: 17 L/min or 4.5 gallon/min Capacity: 3 liters or 0.8 gallons	1	unit		

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42	Spectro fluorophotometer	<p>Light Source 150 W Xenon lamp. Ozone resolving type lamp housing.</p> <p>Excitation and emission monochromators Concave, blazed holographic grating, F/2.5, 1300 grooves/mm.</p> <p>Wavelength scale 220-900 nm.</p> <p>Measuring wavelength range 220-750 nm and 0 order as standard. 220-900 nm with the optional R928 photomultiplier.</p> <p>Spectral bandwidth 6-step selection of 1.5, 3, 5, 10, 15 and 20 nm. (6nm bandwidth is available for half sample height on the excitation side only.)</p> <p>Wavelength accuracy ± 1.5 nm.</p> <p>Light source compensation Dynode feedback system with monochromatic light monitoring.</p> <p>Sensitivity The S/N ratio is 150 or higher for the Raman line of distilled water (350 nm excitation wavelength, 5nm spectral bandwidth, and 2 second response for 98 % of the full scale).</p> <p>Wavelength scanning 7-step selection of Survey (about 5500 nm/min), Super (about 3000 nm/min), Very Fast, Fast, Medium, Slow and Very Slow.</p> <p>Wavelength slewing speed About 20000 nm/min.</p> <p>Response 8-step selection of 0.02, 0.03, 0.1, 0.25, 0.5, 2, 4, and 8 seconds for 98 % of the full scale.</p> <p>Sensitivity selection 2-steps of HIGH and LOW. (The sensitivity at HIGH is about 50 times that of LOW.)</p> <p>Interface RS-232C interface, interface for autosampler, and interface for sipper unit.</p> <p>Dimensions and weight 667W x 530D x 270H mm; 43 kg.</p> <p>Power requirements 100, 120, 220, 240 V; 50/60 Hz; 400 VA.</p> <p>Operational temperature range 15-35 °C</p> <p>Operational humidity range 40-80 % (Below 70 % with temperature higher than 30 °C)</p>	1	Unit		
43	Digital Ultrasonic Bath	<p>Volume (L) 17.5</p> <p>Ultrasonic Power (W) 300</p> <p>Temperature Range (°C) +5 to 70</p> <p>Operating Frequency (kHz) 32-38</p> <p>Timer (minute) 0-99</p> <p>Berat (Kg) 12.6</p>	1	Unit		

No	Nama Alat	Spesifikasi	Volume	Satuan	Harga Satuan	Jumlah
44	Blower supercharge, instalasi aerasi, uniring	Aerator : blower super charger amr500 2hp double pulley, Inverter hnc hv 610 1 phaese 2800 rpm Instalasi aerasi : pipa pvc 1/2" aw Lbow 1/2" aw, T 1/2" aw, Pipa pvc 1,5" aw, T 1,5" to 1/2", dop 1,5". Uniring : 25mm ukuran 5 inch, Connector 1/2", Pemberat 3 cm, drat dalam aw 1/2", stop kran aw 1/2"	1	Unit		
45	electrophoresis bio rad minisub dan power suplay elite 300 for electrophoresis	Specifications: Gel Size (width x Length): 15 x 10 cm Sample Throughput: 10 - 60 Base Buffer Volume: 0.65 L Cell Size (W x L x H): 17,8x 25,5x 6,8 cm Distance to Electrode: 14.5 cm Bromphenol Blue (Dye) migration rate (at 75 V): 4.5 cm ReadyAgarose gels accommodated: YES Specifications of Power Pac Basic Power Supply Output specifications: 10 - 300 V, fully adjustable in 1 V steps 4 - 400 mA, fully adjustable in 1 mA steps 75 W (Maximum) Type of output: Constant voltage or constant current with automatic crossover Output terminals: 4 pair recessed banana jacks in parallel Timer : 1 min - 999 min, fully adjustable Pause/resume function: Yes Display: 3 digit LED Operating conditions : 0 - 40 C 0 - 95% humidity (noncondensing) Regulatory: EN 61010-1,CE Safety features: No-load detection sudden load change detection overload/short circuit detection overvoltage protection Input protection: Fuse on both hot and neutral Input Power (actual): 90-120 or 198-264 VAC, 50/60 Hz, autoswitching Dimensions (WxDxH): 21 x 24,5 x 6,5 cm Weight: 1,1 kg (2,4 lb)	1	Unit		
					Jumlah	1.540.067.850
					PPN	169.407.464
					Jumlah Total	1.709.475.314

ditetapkan di Sumedang
Pada tanggal 20 Januari 2025
Pembuat Komitmen