

### Harga Material Alat TERAWANG (Monitoring Kondisi Internal Batang Pohon menggunakan Acoustic Tomography)

SUB SISTEM	KOMPONEN	JUMLAH		HARGA SATUAN	TOTAL	VENDOR
Data Akuisisi	Paku Baja 10 cm	8	pcs	Rp 8,000	Rp 64,000	
	Lempeng Besi 15mm x 40mm	8	pcs	Rp 3,000	Rp 24,000	
	Las Kuningan	8	pcs	Rp 7,500	Rp 60,000	
	Sensor KY-037	8	pcs	Rp 7,500	Rp 60,000	
	Led merah	8	pcs	Rp 500	Rp 4,000	
	Led Hijau	8	pcs	Rp 500	Rp 4,000	
	Bracket Led	16	pcs		Rp -	
	Kotak Sensor	8	pcs	Rp 3,500	Rp 28,000	
	Kabel Jumper Vcc	1	mtr	Rp 3,000	Rp 3,000	
	Kabel Jumper Gnd	1	mtr	Rp 3,000	Rp 3,000	
	Kabel Jumper D0	1	mtr	Rp 3,000	Rp 3,000	
	Konektor 2 pin M-F	8	pcs		Rp -	
	Sekrup Kotak Sensor	32	pcs	Rp 500	Rp 16,000	
	Mur Baut	8	pcs		Rp -	
	GX12 Jack Aviation Plug Socket M-F,3P	8	pcs	Rp 9,000	Rp 72,000	
	Kabel data 3 core	24	mtr	Rp 9,000	Rp 216,000	
	Shaft Drill Locator Stop Collars 5mm hole	8	pcs	Rp 4,500	Rp 36,000	
	Stiker Angka Waterproof 4cm (kotak sensor)	8	pcs	Rp 340	Rp 2,720	RELOAD STICKER (Shopee)
Kontrol dan Pemrosesan Data	Teensy 4.1	1	pcs	Rp 830,000	Rp 830,000	
Komunikasi Nirkabel	Bluetooth HC-05	1	pcs	Rp 55,000	Rp 55,000	
	Resistor 100 ohm	1	pcs	Rp 500	Rp 500	
	Pilot Lamp LED 12V DC Plastik Bening Power I ndicator Signal Light XD10-3 HIJAU	1	pcs	Rp 2,190	Rp 2,190	BEST A&Y (Shopee)
Casing dan Daya	PCB	1	pcs	Rp 114,000	Rp 114,000	Spectra (081572493433)
	3D Printing	1	pcs	Rp 267,000	Rp 267,000	SnoveLab (085862026925)
	Koper Mini Hardcase Multifungsi Case with Sponge Precut Foam ABS Box - 42CM	1	pcs	249000	Rp 249,000	BSO Tactical (Tokopedia)
	1260110 Baterai Li-Po 10000mah	1	pcs	Rp 152,000	Rp 152,000	Lind Store (Tokopedia)
	TP4056 + BMS 5V USB TYPE-C 1A LITHIUM BATTERY CHARGING + PROTECTION MODULE	1	pcs	Rp 5,900	Rp 5,900	CNC STORE BANDUNG (Shopee)
	SX1308 STEP UP CONVERTER BOOST MODULE ADJUSTABLE	1	pcs	Rp 4,900	Rp 4,900	
	PIN HEADER FEMALE STRIP SINGLE ROW 1X40 2.54MM BLACK HITAM	3	pcs	Rp 1,200	Rp 3,600	
	LITHIUM BATTERY FUEL GAUGE DISPLAY MODULE 1/2/3/4/6/7/8S GREEN	1	pcs	Rp 15,900	Rp 15,900	
	CAPACITOR ELECTROLYTIC ELCO KAPASITOR ELEKTROLIT ELKO 470UF 470UF/25V	1	pcs	Rp 600	Rp 600	
	100nF ±20% 50V X7R 1206	6	pcs	Rp 250	Rp 1,500	Lisu Instrument (Shopee)
	22uF ±10% 25V X5R 1206	1	pcs	Rp 1,399	Rp 1,399	
	10uF 50V Electrolytic Capacitor	2	pcs	Rp 1,399	Rp 2,798	
	47uF 100V ±20% 10x10.2mm SMD Aluminum Electrolytic Capacitors	1	pcs	Rp 5,299	Rp 5,299	
	50V 220UF SMD ELCO(10*10.2MM)	1	pcs	Rp 2,500	Rp 2,500	Jogjarobotika (Tokopedia)
	Connector Konektor JST PH2.0 Male Right angle Siku L Bengkok for Lipo baterai	1	pcs	Rp 150	Rp 150	Aladin Shop (Shopee)
	Connector JST XH2.54 2Pin Male	3	pcs	Rp 600	Rp 1,800	
	Connector JST XH2.54 3Pin XH Male	8	pcs	Rp 600	Rp 4,800	
	Kabel konektor JST XH XH2.5 3P	8	pcs	Rp 1,400	Rp 11,200	
	Kabel JST XH XH2.5 2P	3	pcs	Rp 1,300	Rp 3,900	
	GX12 Jack Aviation Plug Socket Male,3Pin	8	pcs	Rp 4,500	Rp 36,000	Tenako Electric (Shopee)
	GX12 Jack Aviation Plug Socket Female,3Pin	8	pcs	Rp 4,500	Rp 36,000	
	STIKER ANGKA BULAT 1 CM WATERPROOF	1	pcs	Rp 9,500	Rp 9,500	ANIMO LABEL (Shopee)
	Meteran Gulung Roll Kain 10M	1	pcs	Rp 14,850	Rp 14,850	OTENTIK TEKNIK (Shopee)
	Palu kamping gagang kayu	1	pcs	Rp 35,000	Rp 35,000	

**Total Harga      Rp 2,463,006**