DAFTAR KEBUTUHAN HARDWARE

No	Jenis dan Type	SPESIFIKASI TEKNIS	Quantity	Spesifikasi Yang Ditawarkan	Harga Satuan	Total Harga Satuan
1	Server HP Proliant DL120G9	Server HP Proliant DL120G9 •Architecture/No of Cores : PCI/ 6 Core (2 logical cores per physical) •CPU : Intel Xeon 2,4 GHz •Memori : 8 GB (1 x 8 GB) •Hard Disk : 2 TB •Operating System : Multitasking OS •Dapat dikembangkan untuk real time management system •Protocol TCP/IP •Operating System multi user, 8 dump/client •Dilengkapi 4 x USB port yang ditempatkan di bagian depan casing untuk External Floppy Drive dan CD- ROM Drive	9	P04646-B21 HPE ProLiant DL325 Gen10 7251 - 4LFF Entry Server AMD EPYC 7251 (2.1GHz/8-core/120W), 8 GB RDIMM SR 2666 MT/s (1x 8 GB), HPE 1Gb Ethernet 4-Port 331i Adapter, E208i-a, 4 LFF chassis, PCI-Express 2-slots (x16, x8), 500W HPE Non-Hot-Plug/Non-RPS Power Supply, 5- fans, HPE iLO with Intelligent Provisioning, HPE OneView (requires download), Energy Star 2.1 certified, 1U Rack, Easy Install rails without CMA, Warranty 3-3-3-year NBD 861686-B21 HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) LP Digitally Signed Firmware HDD x2	Rp 44.625.000	Rp 401.625.000
2	Monitor LED 18.5"	•Tipe Light Emitting Diode (LED) •Ukuran 18.5" •Resolusi 1366 x 768 •Compatibility VGA / SVGA / 8514A •Power Consumption 20 Watt •Respon Time 5 ms	3	HPLDV5E94AA - HP V194 18.5"LED Resolution HD 1366 x 768 (16:9), 1 VGA, 3-3-0 years warranty	Rp 1.155.000	Rp 3.465.000
3	KVM Switch 4 Port	•Computer Connections 4 •Port Selection OSD; hotkey; Push button; Mouse •Console Port 1 Video; 1 Keyboard; 1 Mouse •KVM Port 4 Video; 4 Keyboard; 4 Mouse	3	KVM ATEN CS64US 1 port USB Console 4 ports USB Computers Audio Built In 1.8 m Cable	Rp 1.417.500	Rp 4.252.500
4	HP Desktop 280 G2 (65PT) MT Core i5 - 3,2 GHz	•Merk HP Desktop 280 G2 (65PT) MT •Architecture PCI / Quad Core •CPU Core i5 - 3,2 GHz •Memory :4 GB •Hard Disk : 1 TB •Network Speed : 10/100/1000 Mbps •Operating System : Multitasking OS •Dilengkapi dengan pengaman saluran daya dan komunikasi •Dapat dikembangkan untuk real time management system. •Protocol TCP/IP •Operating System multi user, 8 dump/client. •Dilengkapi DVD-RW •Dilengkapi USB port yang ditempatkan di bagian depan casing •MTBF 80.000 jam	13	H-280-M-4NZ67PA - HP 280MT G4 Core i5 - WIN 10PRO64 Intel 8th Core i5-8400 2.8GHz 6C, 4GB D4-2666 DIMM, HDD 1TB 7200RPM, 9.5mm Slim SuperMulti DVDRW, Warranty 3part - 3labour - 3onsite, Intel® UHD Graphics 630, CHIPSET Intel® H370, WLAN RT ac1x1 +BT4.2 WW, 4 USB 2.0; 4 USB 3.1; 1 VGA; 1 HDMI; 1 RJ-45, Pararel & Serial Port, USB Optical Keyboard & MOUSE, 1 full-height PCI, 1 PCIe x1; 1 PCIe x16; 2 M.2, 1 SD 3 Card Reader, Integrated 10/100/1000M GbE with Realtek ALC3601 codec	TPM 2.0	PS 180watt (Harga No Display)	Rp 11.539.500	Rp 150.013.500
5	Monitor LED 21.5''		13	HPLCX7R61AA - HP ProDisplay P223 21.5" Resolution FHD 1920 x 1080 (16:9), 1 VGA, 1 DISPLAY PORT 1.2, 3-3-0 years warranty	Rp 1.995.000	Rp 25.935.000
6			3	Keyboard K120 & Mouse B100 Logitech USB	Rp 183.750	Rp 551.250

No	Item	Spesifikasi	Qty	Produk	Harga Satuan	Total
7	HP LaserJet Pro P1102	•Metoda Pencetakan: Laser Jet •Kecepatan Cetak: Up to 18 ppm, 600 x 600 DPI •Ukuran kertas : A4, legal, standard •Interface : USB 2.0	10	HP LaserJet Pro M102A A4 22 ppm 600 dpi 150 Sheet Input Tray USB Replacement HP LaserJet Pro P1102 [CE651A]	Rp 1.092.000	Rp 10.920.000
			3	Epson L3150 A4 Print Method: On-demand inkjet (Piezoelectric) Maximum Resolution: 5760 x 1440 dpi Print Speed: Up to 33 ppm (black) / 15 ppm (colour) Copy Resolution: 600 x 600 dpi Copy Speed: Up to 7.7 ipm (black) / 3.8 ipm (colour) Scan Resolution: 1200 x 2400 dpi Scan Speed 200 dpi: 11 sec (black) / 28 sec(colour) Tray #1 100 sheets-A4 / Letter Plain paper (80 g/m2) Interface: USB 2.0 + Wifi	Rp 2.966.250	Rp 8.898.750
8	UTP Hub 16 port manageable	•Jumlah Ports : 16 ports •Media Interfaces : 16 x 10/100/1000Mbps Auto-MDIX RJ45 Ports •Switching Featured : Store and Forward •Power Supply : 100~240AC 50/60Hz, Internal Switching Power	3	Allied Telesis AT-GS950/16	Rp 4.173.750	Rp 12.521.250
9	FO Chasis Multi Mode	•16 slot for housing up to 16 TFC series media converter •1 x 10/100Mbps Fast Ethernet RJ45 and 1 x RS 232 •SNMP(RFC1157), ARP(RFC826), IP(RFC791), ICMP(RFC792), UDP(RFC768),TCP(RFC793), TFTP(RFC783), Telnet(RFC854), BOOT(RFC951), MIB II •One power supply; optional second power supply	3	FO Chasis Multi Mode TRENDNET 16 Slots Chassis System for Fiber Converter TFC-1600 16 Slots Chassis System for Fiber Converter	Rp 7.560.000	Rp 22.680.000
10	FO Converter 1000 Mbps (TRENDNET Multi-Mode SC Fiber Converter (TFC-1000MSC))	1000Base-T to1000Base-LX Single-Mode Fiber Converter (20Km) with SC-Type Connector.	74	TRENDNET Multi-Mode SC Fiber Converter TFC-1000MSC 1000Base-T to 1000Base-SX Multi-Mode Fiber Converter with SC-Type Connector	Rp 1.533.000	Rp 113.442.000
11	FO Converter Single Mode		20	FO Converter Single Mode TRENDNET Single Mode SC Fiber Converter TFC-1000S20 1000Base-T to1000Base-LX Single-Mode Fiber Converter (20Km) with SC-Type Connector	Rp 1.975.050	Rp 39.501.000
12	Rack Server NIRAX (19"/42U)	•Complete With: Side Cover, Back Metal Door, Tempered Glass Front Door with Swinghandle& Adjustable Foot. •Include : Power Distribution Outlet (10 Vertical outlet), Bracket fan with 2 fan for top cover blower. 50 pair cage nut & Screw with ring.	3	NR11042 Nirax 19" 42U Depth 1100mm Black Complete with : side cover, back metal door, tempered glass front door (DA42) with swinghandle & adjustable foot, include : - 1 Unit Power Distribution 5 Horizontal Outlets for Rack high (PS01) - 1 Unit Brackets Fan with 2 Fan for top cover blower (BF02) - 50 unit Cage Nut & Screw with ring (CN01 + SC01) - SP100 Nirax 19" Shelf Plate, depth 848mm	Rp 14.385.000	Rp 43.155.000

No	Nama	Spesifikasi	Qty	Keterangan	Harga Satuan		Total	
13	Router Switch Layer 3	Jenis Branded Industrial seperti : CISCO Device Type : Router Connectivity Technology : Wired Data Transfer Rate : 40 Gbps Remote Management Control : SNMP RAM : Minimum 128 MB Flash Memory : Minimum 20 MB	3	Router Switch Layer 3 ALCATEL OS6450-24-EU OS6450-24 Gigabit Ethernet 1RU chassis. 24 10/100/1000 BaseT, 2 SFP+ 1G/10G ports, one expansion slot. Includes an internal AC power supply with an EU power cord, user manuals access card, RJ45 to DB9 adaptor.	Rp	10.489.500	Rp	31.468.500
14	Uninterruptible Power Supply (UPS) Sorotec 6 KVA	•Input Voltage : 180 VAC - 240 VZC •Input Frequensy : 50 Hz +/- 5% •Output Voltage : 220 VAC single phase, 50 Hz, continuous. •Output Voltage regulation : less than 5% •Output frequency regulation : less than 0.01% •Waveform : sinewave, less than 3% distortion with linear load. •Output Power : disesuaikan dengan beban dan power factor pada gerbang yang bersangkutan. •Input Voltage : 220 VAC (nominal) +/- 10% •Input Frequency : 50 Hz +/- 5% •Output voltage : 220 VAC single phase, 50 Hz. •Output voltage regulation : less than 5% (steady or transient) •Output frequensy regulation : less than 1% •Waveform : sinewave, less than 5% distortion with linear load. •Skenario overload, brownout, inverter failure etc: yielding to load transfer. •Load transfer : electronic static switch (synchronised/non synhronisied) •Fan Cooling •Instaneous oveload (Inverter) tolerance •Instaneous oveload (Bypass) tolerance •Float Charging •UPS teraktifkan secara otomatis pada saat tegangan lebih atau gangguan pada sumber listrik utama. •Kapasitas UPS dan baterai dirancang untuk mencatu listrik kepada peralatan tol selama 30 menit pada saat sumber listrik utama mati.	3	UPS SOROTEC 6KVA Jenis produk : UPS On line (Uninterruptible Power Supplies) Teknologi : Microprocessor controlled high frequency Model : HP9116C / 6KT / LCD besar Kapasitas : 6KVA / PF.0,7 4200W Input / output : Single phase, 220 VAC Toleransi tegangan input : 110 VAC hingga 300 VAC Regulasi tegangan output : 220 VAC + 2% Auto bypass : Tersedia Baterai : SLA Panasonic 20 pcs Back up time standard : 5 - 10 menit Spesifikasi teknik : Terlampir dalam brosur	Rp	42.168.000	Rp	126.504.000
15	Stabilizer 15 kVA		4	Yoritsu MDi-15 Type : MDI-15 Capacity : 15 KVA Input : 160 – 240V Output : 220V Phase : 1 Frequency : 45 – 60 Hz Accuracy Output : Adjustable 1%, 2%, 3%, 4% Display Output : Reliable Volt Digital / Ampere Digital Control System : Advance PCB, 24V DC Servo Motor Tzukasa, Japan Respond Time : Within 1 second against 10% input voltage deviation Temperature Control : 75 derajat celcius at output 220V Cooling System : No Fan required, Convention Cooled Efficiency : Better than 98% Dielectric Strength : 3000V for 1 min Dimension : L x W x H = 450 x 500 x 700 mm	Rp	12.862.500	Rp	51.450.000

No	Item	Spesifikasi	Qty	Keterangan	Harga	Total
16	Printer kartu, (Fargo),Dye-sublimation / resin thermal transfer, 300 dpi (11.8 dots/mm) continuous tone	Printing Technology: Dye-sublimation / resin thermal transfer •Resolution: 300 dpi (11.8 dots/mm) continuous tone •Colors: Up to 16.7 million / 256 shades per pixel •Print Speed: 6 seconds per card (K*), 8 seconds per card (KO"), 16 seconds per cards (YMCKO), 24 seconds (YMCKOK) •Accepted Card Sizes: •Print Area: •Input card cartridge capacity: 100 cards (.030" / .762mm thick) •Output hopper card capacity: Up to 30 cards (.030" / .762mm thick	0	Smart ID Card Printer 51S Direct Thermal Printing 300dpi, Single Side Terdapat LCD untuk mengetahui jumlah ribbon tersisa dan status pencetakan kartu Memiliki opsi modular untuk Magnetic Encoding, Contact/Contactless Smart Card Encoding dan Dual Side Module Input Hopper : 100 Cards/ 200 Cards with cover open Output Hopper : 40 Cards YMCKO Printing Speed : 17 sec./card Black Printing Speed : 5 sec./card	Rp 16.747.500	Rp -
			0	Ribbon LXSP-R-Colour YMCKO 1 Roll = 250 Images	Rp 1.212.750	Rp -
			0	Ribbon LXSP-R-Black K 1 Roll = 1,200 Images	Rp 630.000	Rp -
			0	PVC Blank Card 1 Box = 250 Pcs	Rp 420.000	Rp -
17	Network Attached Storage (NAS) 8 Bay Rackmount RS815+	CPU Model : Intel Atom CPU Frequency : Dual Core 2.13 GHz System Memory : 2 GB DDR3 Memory Expandable up to : 4 GB (2GB x 2) Total Memory Slots : 2 Drive Bay(s) : 12 Slots Storage : 16 TB (4 TB x 4 Slots); Spare 8 Slots Hard Disk RPM : 7200 RPM HD Interface : SATA III Support : USB 3.0, USB 2.0, RJ-45	3	SYNOLOGY RS818+ Include RAILKIT RKM114 4 Bays (HDD Not Include) Intel Atom C2538 Quad Core 2.4GHz Memory : 2GB DDR3 (Expandable up to 16GB) Max Capacity : 48TB (12TB HDD x 4) RJ-45 1GbE LAN Port x 4 (with Link Aggregation / Failover support) USB 3.0 Port x 2 eSATA Port x 1 44mm X 430.5mm X 457.5mm 6.73 kg Yes (wireless dongles not included) Maximum User Account: 2048, Maximum Group: 256, Maximum Shared Folder: 512, Maximum Concurrent CIFS/AFP/FTP Connections: 512 Default IP cam #: 2, Maximum IP cam # (licenses required): 40 Reads 366 MB/s and writes 347 MB/s 3 Years	Rp 17.850.000	Rp 53.550.000
18	Hardisk NAS 4 TB WD Red Pro 4TB NAS Hard Disk Drive - 7200 RPM	WD Red Pro 4TB NAS Hard Disk Drive - 7200 RPM SATA 6 Gb/s 64MB Cache 3.5 Inch - WD4001FFSX -WD Red Pro is designed specifically for medium to large NAS systems that have 8 to 16 drive bays. The drives are designed and extensively tested for compatibility in the unique 24x7 operating environment and for the demanding system requirements of medium to large NAS. With 7200 RPM.	24	Enterprise NAS 3.5" - 7200rpm TNA-HDWQ140UZSVA TOS IHDD- 3.5" N300 24x7 4TB 7200RPM 128MB SATA 4TB	Rp 2.310.000	Rp 55.440.000
19	OS Windows Server		3	PN P00487-B21 MS WS16 (16-Core) Std ROK en SW	Rp 12.626.250	Rp 37.878.750

Note :
Harga Belum Termasuk PPN 10%
Harga Belum Termasuk Instalasi
Harga Franco Jakarta

Subtotal	**Rp**	**1.193.251.500**	Disc	setelah Nego
PPN 10%	**Rp**	**119.325.150**	53.696.318	1.139.555.183
Grandtotal	**Rp**	**1.312.576.650**		113.955.518
				1.253.510.701