



KEMENTERIAN AGAMA
UNIVERSITAS ISLAM NEGERI MAULANA MALIK IBRAHIM MALANG
FAKULTAS SAINS DAN TEKNOLOGI

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Nomor : Un.03/KS.01.04/3136/2013
Lampiran : 1 bendel
Hal : Permintaan Informasi Harga Barang

23 September 2013

Kepada
Yth.
Di Tempat

Assalamu'alaikum Wr. Wb.

Dengan hormat, sehubungan rencana realisasi pelaksanaan pekerjaan **Belanja Modal Peralatan dan Mesin Jurusan Fisika Fakultas Sains dan Teknologi** (kode 2132.997.001.016 MAK 537112), maka kami bermaksud agar perusahaan saudara memberikan informasi tentang harga barang sesuai dengan Rencana Anggaran Biaya (RAB) yang kami lampirkan dalam surat ini. Apabila informasi harga yang saudara berikan sesuai dan kami nilai wajar, maka kami akan memberikan kesempatan perusahaan saudara untuk membuat penawaran terhadap pekerjaan tersebut.

Kami harap data barang dan harganya dapat kami terima paling lambat pada:

Hari/ Tanggal : Rabu/ 25 September 2013

Waktu : 14.00 WIB

Tempat : Fakultas Sains dan Teknologi UIN Maliki Malang atau dikirim via e-mail ke: ulp@uin-malang.ac.id atau ulp_uinmalang@kemenag.go.id

Surat tentang informasi harga barang tersebut, ditujukan:

Kepada

Yth. Pejabat Pembuat Komitmen Fakultas Sains dan Teknologi
UIN Maulana Malik Ibrahim Malang

Demikian atas perhatian dan kerjasamanya, kami sampaikan terima kasih.

Wassalamu'alaikum Wr. Wb.

a.n. Rektor/ Kuasa Penguasaan Anggaran
Dekan/ Pejabat Pembuat Komitmen,



Dr. Drh. Bayyinatul Muchtaromah, M.Si

NIP. 19710919 200003 2 001

Lampiran Surat

Nomor : Un.03/KS.01.04/3136/2013

Tanggal : 23 September 2013

Tentang :

Spesifikasi Barang
Belanja Modal Peralatan dan Mesin
Berupa Alat Jurusan Fisika Fakultas Sains dan Teknologi
(kode 2132.997.001.016 MAK 537112)

No	Nama Barang	Spesifikasi	Jumlah	Harga	Jumlah
1	Oscilloscope Digital Storage 25 MHz	Model PDS5022 Bandwidth 25MHz Sample Rate (Real time) 100MS/s Rise time $\leq 14\text{ns}$ Display 7.8 inch colored LCD, 256 colors for STN screen/65536 colors for TFT screen, 640x480 pixels Channel Dual channels+ external trigger Sampling mode Normal sample, Peak detect and Average Record length Max.6000 for each channel Sampling range 10S/s~100MS/s Horizontal scale (s/div) 5ns/div~5s/div step by 1~2.5-5 Vertical sensitivity 5mV ~5V/div (at BNC input) DC Gain Accuracy $\pm 5\%$ Max. input voltage 300V(PK-PK)(DC+ AC PK-PK) Input impedance $1\text{M}\Omega \pm 2\%$ in parallel with 20pF $\pm 5\text{pF}$ Input coupling AC,DC Trigger Mode Edge, Video Vertical resolution (A/D) 8 bits (2CH simultaneously) Sampling rate / relay time accuracy $\pm 100\text{ppm}$ Interval(ΔT)accuracy Single : $\pm(1 \text{ interval time} + 100\text{ppm} \times \text{reading} + 0.6\text{ns})$	1	.....	.....

		(DC~100MHz) Waveform storage Automatic measurement Waveform math Lissajou's figure Interface Power supply Dimension Shipping Weight	Average>16 : $\pm(1 \text{ interval time} + 100\text{ppmxreading} + 0.4\text{ns})$ 4 waveforms Peak-to-Peak, Average, Root mean square, Frequency, and Cycle +, -, Invert 25 MHz ± 3 degrees USB, RS232 100-240 VACRMS, 50Hz, CAT II 350mm(L)x157mm(H)x103mm(W) 4KG			
2	Muffle Furnace	Temp. Range Dimension (wxdxh) Internal(cm) Dimension (wxdxh) External(cm) Capacity Time required at 800°C Material Internal Material Eksternal Material Insulation Controller Display Timer Thermocouple Heater(Kantal A1) Safety Device Power Power Supply*	100°C ~ 1000°C 13x25x9 39x48x50 3 Lit. 16 min Ceramic Fiber with Heating Wire Powder Coated Steel Ceramic Fiber Digital PID Controller with Jog-Shuttle Switch (Turn+Push) Digital LCD Display 99hr 59min (Continuous Function Included) K-type Ceramic Fiber with Heating Wire, 4-Side Heating Over Temp. and Over Current Protector, Sensor Error Detector 1.8 kW 2 Pole Plug AC 110V, 60Hz or AC 220V, 50/60Hz, 1Phase	1	.....	.....
3	Digital multimeter	General Specifications: Maximum Voltage between any Terminal and Earth Ground: 1000 V		1	.....	.....

Fuse Protection for mA μ A inputs: 500 mA, 1000 V FAST, Min. Interrupt Rating 20,000 A
 Fuse Protection for A input: 10 A, 1000 V FAST, Min. Interrupt Rating 20,000 A
 Display: Digital: 4000 count updates 3/sec
 Temperature: Operating: 0 °C to 40 °C, Storage: -30 °C to 60 °C indefinitely (to -40 °C for 100 hours)
 Operating Altitude: 0 to 2000 meters
 Temperature Coefficient: 0.1 X (specified accuracy)/ °C (<18 °C or >28 °C)
 Electromagnetic Compatibility: Complies w/ FCC Part 15, Class B, IEC 61326, 3 V/m, performance criterion B
 Rated Transient Over-voltage: 4 kV (1.2 x 50 μ s) Peak for measurement Categories I, II, and III.
 Relative Humidity: Non-condensing < 10 °C; 90% from 10 °C to 30 °C; 75% from 30 °C to 40 °C
 Relative Humidity, 40 M Ω Range: 80% from 10 °C to 30 °C; 70% from 30 °C to 40 °C
 Battery Type: 2 X AA, NEDA 15A, IEC LR6
 Battery Life: Alkaline: 500 Hours
 Size (H x W x L): 7 " X 3.5" X 2" (with holster)
 Weight: 15 ounce (less than 1 LB)
 Certifications: CMC,
 Safety Compliance: IEC 61010-1,
 2000 CAT I 1000 V, CAT II 600 V, and
 CAT III 300 V over voltage standards
 Over-voltage installation categories per IEC 61010-1, 2000: The Meter is designed to protect against transients in these categories:
 CAT I: From high-voltage low-energy sources, e.g., electronic circuits or a copy machine.
 CAT II: From equipment supplied from the fixed installation, e.g., Televisions, PCs, portable tools and household appliances.
 CAT III: From equipment in fixed equipment installations, e.g., installation panels, feeders and short branch circuits, and lighting systems in large buildings.

		<p>Fuse Protection for mA μA inputs: 500 mA, 1000 V FAST, Min. Interrupt Rating 20,000 A Fuse Protection for A input: 10 A, 1000 V FAST, Min. Interrupt Rating 20,000 A Display: Digital: 4000 count updates 3/sec Temperature: Operating: 0 °C to 40 °C, Storage: -30 °C to 60 °C indefinitely (to -40 °C for 100 hours) Operating Altitude: 0 to 2000 meters Temperature Coefficient: 0.1 X (specified accuracy)/ °C (<18 °C or >28 °C) Electromagnetic Compatibility: Complies w/ FCC Part 15, Class B, IEC 61326, 3 V/m, performance criterion B Rated Transient Over-voltage: 4 kV (1.2 x 50 μs) Peak for measurement Categories I, II, and III. Relative Humidity: Non-condensing < 10 °C; 90% from 10 °C to 30 °C; 75% from 30 °C to 40 °C Relative Humidity, 40 MΩ Range: 80% from 10 °C to 30 °C; 70% from 30 °C to 40 °C Battery Type: 2 X AA, NEDA 15A, IEC LR6 Battery Life: Alkaline: 500 Hours Size (H x W x L): 7 " X 3.5" X 2" (with holster) Weight: 15 ounce (less than 1 LB) Certifications: CMC, Safety Compliance: IEC 61010-1, 2000 CAT I 1000 V, CAT II 600 V, and CAT III 300 V over voltage standards Over-voltage installation categories per IEC 61010-1, 2000: The Meter is designed to protect against transients in these categories: CAT I: From high-voltage low-energy sources, e.g., electronic circuits or a copy machine. CAT II: From equipment supplied from the fixed installation, e.g., Televisions, PCs, portable tools and household appliances. CAT III: From equipment in fixed equipment installations, e.g., installation panels, feeders and short branch circuits, and lighting systems in large buildings.</p>				
4	Core Temperature dan data longer	Technical parameters Measured Value Construction Type Temperature Measuring Range	Value Temperature Ambient Air -40 to +80°C	1	.....	.....

		<p>Two-State Input No</p> <p>Lcd Display No</p> <p>Built-In Printer No</p> <p>Operating temperature range -40 to +80°C</p> <p>Accuracy of temperature measurement ±0.4°C</p> <p>Resolution of the reading 0.1°C</p> <p>Real time clock year, leap year, month, day, hour, minute, second</p> <p>Data logging interval adjustable from 10s to 24h</p> <p>Alarm refresh each 10 s</p> <p>Total memory capacity 32000 temperature values in noncyclic logging mode</p> <p>Data logging mode noncyclic - data logging stops after filling the memory cyclic - after filling memory oldest data is overwritten by new</p> <p>Power Lithium battery 3,6V, size AA</p> <p>Typical battery life 7 years</p> <p>Battery life in continuous on-line mode with interval 1 minute reduced to 70% of the above life</p> <p>Battery life in continuous on-line mode with interval 10 second 1 year</p> <p>IP protection IP67 - protected against influence of temporary immersion into water</p> <p>Dimensions 93x64x27mm</p> <p>Weight including battery approximately 100g</p> <p>Warranty 2 years</p>				
5	Analytical Balance	<p>S&H via UPS Ground \$50.00</p> <p><u>Capacity (grams)</u> 210 g</p> <p><u>Readability (milligrams)</u> 0.1 mg</p> <p><u>Repeatability (milligrams)</u> ± 0.1 mg</p> <p><u>Linearity (milligrams)</u> ± 0.3 mg</p> <p>Weighing Units mg, g, ct, oz, dwt, tical, tola, mommes, baht, grain, mesghal, Newton, ozt, teals</p>		1

		<p>Application Modes Weighing, Parts Counting, Percent</p> <p>Tare Range Full Capacity by Subtraction</p> <p>Stabilization Time 3 seconds</p> <p><u>Operating Temp Range</u> 14°F to 104°F (-10°C to 40°C) at 10% to 80% relative humidity, non-condensing, up to 4000m above sea level</p> <p><u>Calibration</u> Digital with External Weight</p> <p>Interface RS232</p> <p>Power Requirements AC Adapter (included)</p> <p>Display Type 1-Line Alphanumeric LCD Display</p> <p>Display Size (in/cm) 4" x 1" / 10 cm x 2.5 cm</p> <p>Pan Size (Diameter) Ø 3.54 inches</p> <p>Height above pan (in/cm) 7.3 inches</p> <p>Dimension WxHxD 7.7" x 11.3" x 12.6"</p> <p>Gross Weight (lb) 10 lb</p> <p>Shipping Weight 15.2 lb</p>			
6	Power Suply	<p>Output Voltage (V) 0~30V</p> <p>Output Current (A) 0~5A</p> <p>Dimension 285×128×145</p> <p>Weight 6.0Kg</p> <p>Input Voltage 110V / 220V AC</p> <p>Include: 1) Power Cord (according to the location standard of shipping) 2) Power supply</p>	1	.....	.....
7	Meeting Box	<p>Power Requirements: AC220V, 50/60Hz ; Batteries (dry cells); 8 pcs. (R20P or "D")</p> <p>Rated Output: AC: 20W (Max. 40W with EXT SP.) ; DC: 8W</p> <p>Power Consumption: AC: 46W (rated output)</p> <p>Battery Life: Batteries (dry cells): Approx. 6 hours</p> <p>Frequency Response: 70 - 10,000Hz (deviation 3dB)</p> <p>Distortion: Less than 10% (rated output)</p> <p>Inputs: Wired mic: -48dB*, 600 Ω, unbalanced type, phone jack AUX: -20dB*, 10k Ω, unbalanced type, pin jack × 2 (monaural)</p>	1	.....	.....

	<p>Outputs:</p> <p>External Speaker: 8-16 Ω/over 20W of rated input, terminal</p> <p>"Internal speaker and external speaker" or "external speaker only" (selectable)</p> <p>Line/Rec.: -10dB*, 1k Ω, phone jack</p> <p>Signal to Noise: Ratio More than 70dB (at rated output).</p> <p>Antenna: Rod antenna</p> <p>Cassette: Deck Section</p> <p>Reproduction System: Auto-reverse</p> <p>Track System: 2-track/1 channel (monaural)</p> <p>Usable Tape: Normal tape</p> <p>Recording Method: AC bias</p> <p>Erasing Method: AC erasure</p> <p>Tape Speed: 4.8cm/sec.</p> <p>Wow and flutter: 0.2% WRMS</p> <p>Fast Forward/Rewind Time: Approx. 100 sec. (C-60 tape)</p> <p>Internal Speaker: 20cm full range speaker + tweeter</p> <p>Operation Temperature: AC: -10°C to +50°C ; DC: 0°C to +40°C</p> <p>Weight 6.7kg</p> <p>Finish ABS resin, light gray</p> <p>Made in Japan (built-up)</p> <p>Dimensions: 298 (W) \times 460 (H) \times 200 (D)mm</p>			
TOTAL			

a.n. Rektor/ Kuasa Pengguan Anggaran
 Dekan/ Pejabat Pembuat Komitmen,



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