

AZMU

**PEMERINTAH PROVINSI SUMATERA BARAT
DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG**

Jalan Taman Siswa No.1 Telp (0751) 7051700 Fax (0751) 7051783 Padang
<http://www.sumbarprov.go.id> - email : pdeisb@sumbarprov.go.id



DOKUMEN PENGADAAN

**HARGA PERKIRAAN SENDIRI
(HPS)**

PEKERJAAN :
PAKET BELANJA MODAL
ALAT LABORATORIUM BAHAN BANGUNAN KONSTRUKSI

PENYEDIA JASA:
PT. KHANSA NIAGA PRATAMA
*Jl. Melong Asih Komp Melong Nirwana Residence No. A-5 RT 007 RW 009
Kel. Cijerah, Kec. Bandung Kulon, Kota Bandung*

SUB KEGIATAN :
PENGAWASAN PENYELENGGARAAN JALAN KEWENANGAN PROVINSI

KEGIATAN :
PENYELENGGARAAN JALAN PROVINSI

PROGRAM :
PENYELENGGARAAN JALAN

SUB UNIT :
UPTD LABORATORIUM BAHAN KONSTRUKSI

TAHUN ANGGARAN 2024

DAFTAR ISI

1. Harga Perkiraan Sendiri (HPS)

2. Data Survey Harga Pasar

HARGA PERKIRAAN SENDIRI

(HPS)

REKAPITULASI HARGA PERKIRAAN SENDIRI

SUB JUNIT : UPTD LABORATORIUM BAHAN KONSTRUKSI
PROGRAM : Penyelenggaraan Jalan
KEGIATAN : Penyelenggaraan Jalan Provinsi
SUB KEGIATAN : Pengawasan Penyelenggaraan Jalan Kewenangan Provinsi
KODE REKENING : 5.2.02.08.01.0006
JENIS BELANJA : Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi
(#) Pengadaan Alat-Alat Ukur Pada Laboratorium Pengujian
SUMBER DANA : PAD
SKPC : Dinas Bina Marga, Cipta Karya dan Tata Ruang Provinsi Sumatera Barat
PALI ANGGARAN : Rp. 387.584.450,00
WAKTU PELAKSANAAN : 120 (seratus dua puluh) hari kalender

No.	Uraian Biaya	Satuan	Volume	Jumlah (Rp)	Jumlah + PPN 11% (Rp)
1	Marshall Stability Test Universal Multispeed	Unit	1	341.000.000,00	378.510.000,00
2	Biconus Sondir	Unit	2	8.100.000	8.991.000,00
	Total				387.501.000,00

Terbilang : Tiga Ratus Delapan Puluh Tujuh Juta Lima Ratus Satu Ribu Rupiah

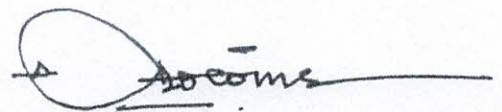
Disetujui Oleh :
Kuasa Pengguna Anggaran



Susy Anas, ST, MT
NIP. 19750607 200801 2 003

Padang, Februari 2024

Disiapkan oleh :
Pejabat Pelaksana Teknis Kegiatan



Azmu Devinus, ST, MT
NIP. 19750804 200901 1 007

RINCIAN HARGA PERKIRAAN SENDIRI

SUB UNIT : UPTD LABORATORIUM BAHAN KONSTRUKSI
 PROGRAM : Penyelenggaraan Jalan
 KEGIATAN : Penyelenggaraan Jalan Provinsi
 SUB KEGIATAN : Pengawasan Penyelenggaraan Jalan Kewenangan Provinsi
 KODE REKENING : 5.2.02.08.01.0006
 JENIS BELANJA : Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi
 (#) Pengadaan Alat-Alat Ukur Pada Laboratorium Pengujian
 SUMBER DANA : PAD
 SKPD : Dinas Bina Marga, Cipta Karya dan Tata Ruang Provinsi Sumatera Barat

No.	Nama Barang	Spesifikasi	Satuan	Vol	JUMLAH	
					Harga Satuan (Rp.)	Jumlah Harga (Rp.)
1	2	3	4	5	6	7
1	Marshall Stability Test Universal Multispeed	Marshall Multispeed Load Frame 50 kN, Matest S215... LOAD FRAME FOR MARSHALL STABILITY STANDARDS: EN 12697-34, 12697-23, 12697-12 ASTM D6927, D5581, D1559 AASHTO T245 BS 598:107 NF P98-251-2 Measures and displays at the same time the stability in kN and the flow in mm with peak hold features, with the possibility to transfer them to a PC and a printer through a RS232 port. Supplied complete with Stability mould. Power supply: 230V 1ph 50Hz 900W Dimensions: 650x400x1100 mm Weight: 120 kg approx. ACCESSORIES SOFTWARE UTM2 (Universal Testing Machine 2) Licence for MARSHALL test Standards: EN 12697-34 ASTM D6927, D5581, D1559 BS 598:107 NF P98-251-2 Data processing program for "X-Y STABILITY/FLOW" General description and technical details: see UTM2 UTM2 SOFTWARE Software developed by Matest allowing operators the management and a "User friendly" control of Matest's digital testing machines. Software available in different languages (Italian, English, French, Spanish, German, Polish, Czech, Slovak, Turkish). The optimal solution of laboratories for its characteristics of versatility with a wide range of customizations, for testing and research. The ideal Software for the management of an extensive production. It contains preset profile tests according to the specifications of the EN Standards and the most common International Standards. Flexibility, operating speed, precision and automatic storage are the fundamental characteristics of the Software conceived to facilitate the operator with few computer skills, for the management of the tests and the testing machines too.	Unit	1	341.000.000,00	341.000.000,00

No.	Nama Barang	Spesifikasi	Satuan	Vol	JUMLAH	
					Harga Satuan (Rp.)	Jumlah Harga (Rp.)
1	2	3	4	5	6	7
		<p>By connecting the PC to the testing machine it is possible to perform the most complex tests just by pressing the start button. UTM2 requires a low expertise operators without any specific experience to use the software successfully (with low cost for the company). It facilitates the printing of certificates suggesting a preset layout but changeable and customizable by the user with its own logo or others. The software is developed on Windows platform and can be installed on old and new operative systems, from Windows XP onwards</p> <p>General features of the UTM2 Automatic</p> <p>Identification of the appliance connected. Easy setting of the sequence of operations concerning the test to be made setttable by the operator. The realization of a personalized testing profile savable and reusable allowing to operate following his own needs setting data and cycle test, the analogical measuring channels and the speed charts. Memorization of the test in the database with the possibility to process it again. Remote and interactive control of the machine. Visualization of the instant loads, instant definition of the load/ deformation/stroke graph, remote control of the main functions of the machine. It can also visualize the emergencies, the alarms and the eventual errors, it calculates and saves all the parameters of the test made with the possibility to process again, and to manage the test files. The data test can be commented by means of test titles to be reported on the certificate or on the graph desired. The user can select the calculation algorithms and , using them, the SOFTWARE will process all the results required by the Standards. The colors and the graph scales of the activated windows can be freely selected by the user as well as zooming on the main interested graphic points. The test certificate can be personalized with the following variables: name of the company, kind of test, date, kind of graph and number of pages. Possibility to visualize into one graph and register into the archiye up to no. 5 test contemporaneously, in order to dispose of a complete and global information about the tests performed for the same production batch</p> <p>Technical specifications</p> <p>HARDWARE - Processor: 312 MHz upgradable till 806 MHz - Display LCD, QVGA (320x240 pixels) Full-color Touch-screen - Cross Keyboard. It can completely replace the touch-screen function (for an easy use with gloves, for example) Hardware – Connectivity - 1 x SD card - 2 x USB hosts available for: mouse, keyboard, pen-drive, printer,</p>				

No.	Nama Barang	Spesifikasi	Satuan	Vol	JUMLAH	
					Harga Satuan (Rp.)	Jumlah Harga (Rp.)
1	2	3	4	5	6	7
		<p>USB Hub (to expand the number of ports), other peripherals from PC Hardware - I/O - 8 Channel ADC Converter (with 2 high resolution channels for use with load cells); Sampling frequency: up to 200 Hz (for all the 8 channels) Number of bits: up to 24 - 8 digital inputs - 8 digital outputs Motor ignition, Valves activation - Expansion Connector Hardware - Control operation - 2 x stepper motor controllers 1 x standard controller, 1 x optional controller - Brushless or stepper motor, through Expansion board Hardware - Storage - Internal flash memory, dedicated to the software and to the configuration of profiles, machine, channels (including calibrations), etc - Unlimited memory using external memory devices SD -Card, Pen-Drive Hardware - Various - On board thermic graphic printer (Accessory: C127N) - Clock Calendar, buzzer alarm Software - Operating system: "Windows Embedded CE 6.0 R3" - User-friendly interface - Easy updating of software and operating system - International setting configuration Multilanguage interface Data/time/numbers formatting system Measurement systems (S.I.; US System) - Software modularity Reference standards and tests complied through easy to install software modules - Power calculation Superior calculation capacity. Graphic representation of the test data Independent use from the PC Software - Languages - Italian, English, French, German, Spanish, Russian, Polish, Greek, Portuguese, Dutch, Romanian, Czech. Additional languages on request Software - Licenses - Every machine has an unique specific serial number - Compliance to specific standards through dedicated license files Software - Record and report - Test records: Data, Results, Chart - Printing: Through on board printer (Accessory G127N) Though PCL printer connected to USB Software - "Maintenance" - Available updates: Operating System, Applications, Licenses (backup and restore), Configuration (backup and restore), Software log - New "UTM": machine control through Ethernet (intranet, Internet) - Internet connection for remote assistance</p>				
2	Bk onus Sondir	Ring f-150 cap 2,5 t	Unit	2	4.050.000,00	8.100.000,00

Analisa Perhitungan Harga Perkiraan Alat

No.	Nama Barang/Jasa	Merk / Type	Harga Dasar	PPH 1 (Produsen) 11%	Jumlah	Satuan	Jumlah Harga	Kenaikan 10%	Perkiraan Berat	Berat + Biaya Packing + Mob Lokal	Satuan Ongkir (per Kg)	Ongkir/ Mobilisasi sampai Tujuan	Jumlah Barang + Ongkir	Instalasi dan Pelatihan 2 hari termasuk Inap dan transport	PPH 1,5%	Profit 10%	Jumlah	Ditambah PPN Dinas 11%	Ket.
a	b	c	e	f			g	h	i	j	k	l	m	n	d	p	q	r	s
1	Marshall Stability Test Universal Multispeed	Matres/ S215...	341.000.000	-	1	Unit	341.000.000	-	120	-	-	-	341.000.000	-	-	-	341.000.000	378.510.000	
2	Biconus Sondir		4.050.000	-	2	Unit	8.100.000	-	-	-	-	-	8.100.000	-	-	-	8.100.000	8.991.000	
	JUMLAH																349.100.000	367.501.000	

DATA SURVEY HARGA PASAR



PT. KHANSA NIAGA PRATAMA

Komp. Melong Nirwana Residence Kav. A5.
 Jl. Melong Asih No.86 Bandung Telp: 022 86067832 • Fax : 022 86067832
 E-Mail : khanita_pt@yahoo.com

LABORATORY EQUIPMENT-SCIENTIFIC TECHNICAL SUPPLIES & GENERAL CONTRACTOR

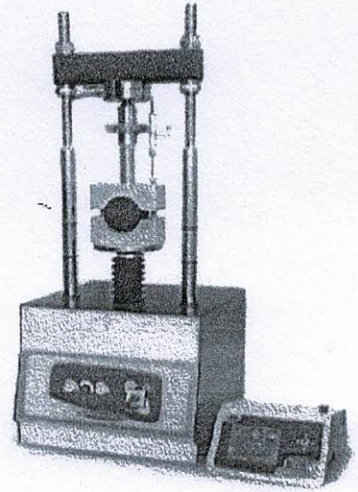
Nomor : 003/SP-KNP/II/2024
 Lampiran : -
 Hal : Penawaran Harga

Bandung, 20 February 2024

Kepada Yth. :
 Dinas Bina Marga, Cipta Karya dan
 Tata Ruang Provinsi Sumatera Barat
 Di
 Jl. Taman Siswa No. 1 Padang

Dengan Hormat,
 Kami dari PT. Khansa Niaga Pratama yang bergerak dibidang jasa penyedia peralatan Laboratorium bermaksud untuk memberikan penawaran jasa penyediaan alat laboratorium kepada Bapak/Ibu, Adapun daftar alat yang kami tawarkan sebagai berikut :

No.	Nama Barang	Qty	Harga (Rp)	
			Satuan	Total
1	<p>S215A Asphalt Stability LOAD FRAME FOR MARSHALL STABILITY STANDARDS: EN 12697-34, 12697-23, 12697-12 ASTM D6927, D5581, D1559 AASHTO T245 BS 598:107 NF P98-251-2 Measures and displays at the same time the stability in kN and the flow in mm with peak hold features, with the possibility to transfer them to a PC and a printer through a RS232 port. Supplied complete with Stability mould. Power supply: 230V 1ph 50Hz 900W Dimensions: 650x400x1100 mm Weight: 120 kg approx. ACCESSORIES SOFTWARE UTM2 (Universal Testing Machine 2) Licence for MARSHALL test Standards: EN 12697-34 ASTM D6927, D5581, D1559 BS 598:107 NF P98-251-2 Data processing program for "X-Y STABILITY/FLOW" General description and technical details: see UTM2 UTM2 SOFTWARE Software developed by Matest allowing operators the management and a "User friendly" control of Matest's digital testing machines. Software available in different languages (Italian, English, French, Spanish, German, Polish, Czech, Slovak, Turkish). The optimal solution of laboratories for its characteristics of versatility with a wide range of customizations, for testing and research. The ideal Software for the management of an extensive production. It contains preset profile tests according to the specifications of the EN Standards and the most common International Standards. Flexibility, operating speed, precision and automatic storage are the fundamental characteristics of the Software conceived to facilitate the operator with few computer skills, for the management of the tests and the testing machines too. By connecting the PC to the testing machine it is possible to perform the most complex tests just by pressing the start button. UTM2 requires a low expertise operators without any specific experience to use the software successfully (with low cost for the company). It facilitates the printing of certificates suggesting a preset layout but changeable and customizable by the user with its own logo or others. The software is developed on Windows platform and can be installed on old and new operative systems, from Windows XP onwards General features of the UTM2 Automatic identification of the appliance connected. Easy setting of the sequence of operations concerning the test to be made settable by the operator. The realization of a personalized testing profile savable and reusable allowing to operate following his own needs setting data and cycle test, the analogical measuring channels and the speed charts. Memorization of the test in the database with the possibility to process it again. Remote and interactive control of the machine. Visualization of the instant loads, instant definition of the load/deformation/stroke graph, remote control of the main functions of the machine. It can also visualize the emergencies, the alarms and the eventual errors, it calculates and saves all the</p>	1	353.000.000	353.000.000





PT. KHANSA NIAGA PRATAMA

Komp. Melong Nirwana Residence Kav. A5.
 Jl. Melong Asih No.66 Bandung Telp: 022 86067632 - Fax : 022 86067632
 E-Mail : khanita_pt@yahoo.com

LABORATORY EQUIPMENT-SCIENTIFIC TECHNICAL SUPPLIES & GENERAL CONTRACTOR

Nomor : 003/SP-KNP/II/2024
 Lampiran : -
 Hal : Penawaran Harga

Bandung, 20 February 2024

Kepada Yth. :
 Dinas Bina Marga, Cipta Karya dan
 Tata Ruang Provinsi Sumatera Barat
 Di
 Jl. Taman Siswa No. 1 Padang

No.	Nama Barang	Qty	Harga (Rp)	
			Satuan	Total
	<p>parameters of the test made with the possibility to process again, and to manage the test files. The data test can be commented by means of test titles to be reported on the certificate or on the graph desired. The user can select the calculation algorithms and, using them, the SOFTWARE will process all the results required by the Standards. The colors and the graph scales of the activated windows can be freely selected by the user as well as zooming on the main interested graphic points. The test certificate can be personalized with the following variables: name of the company, kind of test, date, kind of graph and number of pages. Possibility to visualize into one graph and register into the archive up to no. 5 test contemporaneously, in order to dispose of a complete and global information about the tests performed for the same production batch</p> <p>Technical specifications HARDWARE - Processor: 312 MHz upgradable till 806 MHz - Display LCD, QVGA (320x240 pixels) Full-color Touch-screen - Cross Keyboard. It can completely replace the touch-screen function (for an easy use with gloves, for example) Hardware - Connectivity - 1 x SD card - 2 x USB hosts available for: mouse, keyboard, pen-drive, printer, USB Hub (to expand the number of ports), other peripherals from PC Hardware - I/O - 8 Channel ADC Converter (with 2 high resolution channels for use with load cells); Sampling frequency: up to 200 Hz (for all the 8 channels) Number of bits: up to 24 - 8 digital inputs - 8 digital outputs Motor ignition, Valves activation - Expansion Connector Hardware - Control operation - 2 x stepper motor controllers 1 x standard controller, 1 x optional controller - Brushless or stepper motor, through Expansion board Hardware - Storage - Internal flash memory, dedicated to the software and to the configuration of profiles, machine, channels (including calibrations), etc - Unlimited memory using external memory devices SD -Card, Pen-Drive Hardware - Various - On board thermic graphic printer (Accessory: C127N) - Clock Calendar, buzzer alarm Software - Operating system: "Windows Embedded CE 6.0 R3" - User-friendly interface - Easy updating of software and operating system - International setting configuration Multilanguage interface Date/time/numbers formatting system Measurement systems (S.I.: US System) - Software modularity Reference standards and tests complied through easy to install software modules - Power calculation</p>			



PT. KHANSA NIAGA PRATAMA

Komp. Melong Nirwana Residence Kav. A5.
 Jl. Melong Asih No.66 Bandung Telp: 022 86067632 - Fax : 022 86067632
 E-Mail : khanita_pt@yahoo.com

LABORATORY EQUIPMENT-SCIENTIFIC TECHNICAL SUPPLIES & GENERAL CONTRACTOR

Nomor : 003/SP-KNP/II/2024
 Lampiran : -
 Hal : Penawaran Harga

Bandung, 20 February 2024

Kepada Yth. :
 Dinas Bina Marga, Cipta Karya dan
 Tata Ruang Provinsi Sumatera Barat
 Di
 Jl. Taman Siswa No. 1 Padang

No.	Nama Barang	Qty	Harga (Rp)	
			Satuan	Total
	Superior calculation capacity Graphic representation of the test data Independent use from the PC Software - Languages - Italian, English, French, German, Spanish, Russian, Polish, Greek, Portuguese, Dutch, Romanian, Czech. Additional languages on request Software - Licenses - Every machine has an unique specific serial number - Compliance to specific standards through dedicated license files Software - Record and report - Test records: Data, Results, Chart - Printing: Through on board printer (Accessory C127N) Though PCL printer connected to USB Software - "Maintenance" - Available updates: Operating System, Applications, Licenses (backup and restore), Configuration (backup and restore), Software log - New "UTM": machine control through Ethernet (intranet, internet) - Internet connection for remote assistance https://e-katalog.lkpp.go.id/katalog/produk/detail/77271350?type=general			
			TOTAL GOODS	353.000.000
			PPN 11%	38.830.000
			TOTAL AMOUNT	391.830.000
			FREIGHT CHARGE	3.170.000
			INSTALLATION AND RUNNING CHARGE	4.250.000
			GRAND TOTAL	399.250.000

No.	Nama Barang	Qty	Harga (Rp)	
			Satuan	Total
2	BIKONUS https://e-katalog.lkpp.go.id/katalog/produk/detail/77332284?type=general	1	3.200,000	3.200,000
			TOTAL GOODS	3.200.000
			PPN 11%	352.000
			TOTAL AMOUNT	3.552.000
			FREIGHT CHARGE	298.000
			INSTALLATION AND RUNNING CHARGE	1.000.000
			GRAND TOTAL	4.850.000

**INC PPN VAT 11%

Demikian penawaran yang kami ajukan, apabila ada informasi yang perlu diketahui mengenai penawaran ini lebih lanjut maka Bapak/Ibu dapat menghubungi kami. Atas perhatiannya kami sampaikan terima kasih.

Hormat kami,
 PT. KHANSA NIAGA PRATAMA

Rizkie Ramadhan Setiawan
 Direktur



PT. PANAIRSAN PRATAMA
MATERIAL TESTING & LABORATORY EQUIPMENT
 Kedoya Elok Plaza Blok DB No. 23
 Jl. Panjang, Kebon Jeruk, Jakarta Barat – Indonesia
 Tel : +62-21-5807881 (Hunting) Fax : +62-21-5807880
 E-mail : info@panairsan.com
 Website: www.panairsan.com



PENAWARAN HARGA

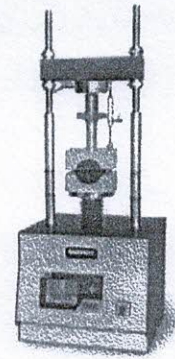
Nomor : 0065/YDL/PP/JKT/I/2024
 Tanggal : 29 Januari 2024

Kepada Yth.
Bapak Azmu Devinus
Laboratorium UPTD LBK DINAS BMCKTR PROVINSI SUMATERA BARAT

Dengan hormat,

Bersama ini kami informasi Harga Peralatan Laboratorium.

No.	Type / Model	Nama Barang / Uraian	Jml	Harga Satuan	Jumlah Harga
1	S215A MATEST · ITALIA	MULTI-SPEED FRAME, TOUCH-SCREEN COMPUTERIZED The digital, touch-screen, computerized universal multispeed tester, is the ideal solution to perform the following tests: CBR (California Bearing Ratio) UNCONFINED COMPRESSION QUICK TRIAXIAL MARSHALL Comprising: Universal multispeed load frame 50 kN, touch-screen. Acquisition and data processing system up to 8 analogical/digital channels for load cells and transducers. Graphic and numbers visualization, processing and printing of the test results. Load Cell 50 kN capacity, complete with cable and connector. Linear Displacement Transducer 50 mm stroke, complete with cable and connector. Mounting device of the coupling pliers. Coupling pliers to hold the transducer. ACCESSORIES FOR MARSHALL TEST: LOAD PISTON, MARSHALL STABILITY MOULD DIA 4" UNIVERSAL SOFTWARE FOR MARSHALL TEST	1 set	Rp. 354.965.340 Rp.	354.965.340
	S212M				
	S212A				
	S337-34				
	S336-14				
	S305-05				
	S335-15				
	S212-05		1 pc		
	B046N		1 pc		
	B043-01N		1 pc		
JUMLAH HARGA					Rp. 354.965.340
PPN 11%					Rp. 39.046.187
TOTAL HARGA					Rp. 394.011.528



KETERANGAN :

- Harga : Sudah termasuk Pajak - pajak
- Penawaran : Sampai dengan 31 Maret 2024
- Instalasi & Training : Termasuk Instalasi dan Training
- Franco / Loko : Padang

Atas perhatian dan kerjasamanya disampaikan terima kasih.

Hormat Kami.
PT. PANAIRSAN PRATAMA



Yulianto Dwi Lalasono
 Marketing Engineer

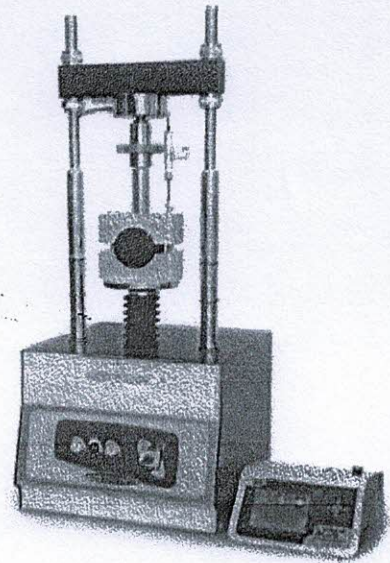
QUOTATION

QUALITY IS OUR PRIORITY

Messrs. : Dinas Bina Marga, Cipta Karya dan Tata Ruang Provinsi Sumatera Barat
 Address : Jl. Taman Siswa No. 1 Padang
 Attention : Mr. Vansuri
 Tel No. : -
 Fax. No. : -
 Mobile : +62 821-7187-8082
 Email : -
 Web : -

Our Ref : RMA24020
 Date : 24 January 2024
 Your Ref : Verbal, 17 January 2024
 Mode of Delivery : Ex-Work (Factory)
 Terms of Payment : 50% Down Payment
 50% Before Delivery
 Delivery Period : Please reconfirm
 Price Validity : 60 days from offer date
 Currency : IDR (Indonesian Rupiah)
 Page(s) : Page 1 of 3

Item No.	Type	Description	Qty	Unit Price IDR	Total Price IDR	Remarks	
1	B043 KIT	DIGITAL MARSHALL TESTER 50 KN CAPACITY STANDARDS: EN 12697-34, 12697-23, 12697-12 ASTM D6927, D5581, D1559 AASHTO T245 BS 598:107 NF P98-251-2 The testing frame is the same as for mod. B042 KIT, but the load is measured by an electric cell 50 kN capacity with high precision strain transducers; the flow is measured by an electronic displacement transducer 50 mm stroke and ± 0.1% linearity. The Cyber-Plus Evolution 8 channels digital display unit with microprocessor (technical details: see B044N-SET p. 132, Hardware technical details: see p. 19) measures and displays at the same time the stability in kN and the flow in mm with peak hold features, with the possibility to transfer them to a PC and a printer through a RS232 port. Supplied complete with Stability mould. Power supply: 230V 1ph 50Hz 900W Dimensions: 650x400x1100 mm Weight: 120 kg approx. ACCESSORIES B043-01N SOFTWARE UTM2 (Universal Testing Machine 2) Licence for MARSHALL test Standards: EN 12697-34 ASTM D6927, D5581, D1559 BS 598:107 NF P98-251-2 Data processing program for "X-Y STABILITY/FLOW" General description and technical details: see UTM2 UTM2 SOFTWARE Software developed by Matest allowing operators the management and a "User friendly" control of Matest's digital testing machines. Software available in different languages (Italian, English, French, Spanish, German, Polish, Czech, Slovak, Turkish). The optimal solution of laboratories for its characteristics of versatility with a wide range of customizations, for testing and research. The ideal Software for the management of an extensive production. It contains preset profile tests according to the specifications of the EN Standards and the most common International Standards. Flexibility, operating speed, precision and automatic storage are the fundamental characteristics of the Software conceived to facilitate the operator with few computer skills, for the management of the tests and the testing machines too. By connecting the PC to the testing machine it is possible to perform the most complex tests just by pressing the start button. UTM2 requires a low expertise operators without any specific experience to use the software successfully (with low cost for the company). It facilitates the printing of certificates suggesting a preset layout but changeable and customizable by the user with its own logo or others. The software is developed on Windows platform and can be installed on old and new operative systems, from Windows XP onwards General features of the UTM2 1. Automatic identification of the appliances connected. 2. Easy setting of the sequence of operations concerning the test to be made settable by the operator. The realization of a personalized testing profile savable and reusable allowing to operate following his own needs setting data and cycle test, the analogical measuring channels and the speed charts. 3. Memorization of the test in the database with the possibility to process it again. 4. Remote and interactive control of the machine. 5. Visualization of the instant loads, instant definition of the load/deformation/stroke graph, remote control of the main functions of the machine. It can also visualize the emergencies, the alarms and the eventual errors, it calculates and saves all the parameters of the test made with the possibility to process again, and to manage the test files. 6. The data test can be commented by means of test titles to be reported on the certificate or on the graph desired. 7. The user can select the calculation algorithms and, using them, the SOFTWARE will process all the results required by the Standards. 8. The colors and the graph scales of the activated windows can be freely selected by the user as well as zooming on the main interested graphic points. 9. The test certificate can be personalized with the following variables: name of the company, kind of test, date, kind of graph and number of pages. 10. Possibility to visualize into one graph and register into the archive up to no. 5 test contemporaneously, in order to dispose of a complete and global information about the tests performed for the same production batch	1	Set	399.250.000	399.250.000	MATEST - ITALY
	B043-01N	SOFTWARE UTM2 (Universal Testing Machine 2) Licence for MARSHALL test Standards: EN 12697-34 ASTM D6927, D5581, D1559 BS 598:107 NF P98-251-2 Data processing program for "X-Y STABILITY/FLOW" General description and technical details: see UTM2 UTM2 SOFTWARE Software developed by Matest allowing operators the management and a "User friendly" control of Matest's digital testing machines. Software available in different languages (Italian, English, French, Spanish, German, Polish, Czech, Slovak, Turkish). The optimal solution of laboratories for its characteristics of versatility with a wide range of customizations, for testing and research. The ideal Software for the management of an extensive production. It contains preset profile tests according to the specifications of the EN Standards and the most common International Standards. Flexibility, operating speed, precision and automatic storage are the fundamental characteristics of the Software conceived to facilitate the operator with few computer skills, for the management of the tests and the testing machines too. By connecting the PC to the testing machine it is possible to perform the most complex tests just by pressing the start button. UTM2 requires a low expertise operators without any specific experience to use the software successfully (with low cost for the company). It facilitates the printing of certificates suggesting a preset layout but changeable and customizable by the user with its own logo or others. The software is developed on Windows platform and can be installed on old and new operative systems, from Windows XP onwards General features of the UTM2 1. Automatic identification of the appliances connected. 2. Easy setting of the sequence of operations concerning the test to be made settable by the operator. The realization of a personalized testing profile savable and reusable allowing to operate following his own needs setting data and cycle test, the analogical measuring channels and the speed charts. 3. Memorization of the test in the database with the possibility to process it again. 4. Remote and interactive control of the machine. 5. Visualization of the instant loads, instant definition of the load/deformation/stroke graph, remote control of the main functions of the machine. It can also visualize the emergencies, the alarms and the eventual errors, it calculates and saves all the parameters of the test made with the possibility to process again, and to manage the test files. 6. The data test can be commented by means of test titles to be reported on the certificate or on the graph desired. 7. The user can select the calculation algorithms and, using them, the SOFTWARE will process all the results required by the Standards. 8. The colors and the graph scales of the activated windows can be freely selected by the user as well as zooming on the main interested graphic points. 9. The test certificate can be personalized with the following variables: name of the company, kind of test, date, kind of graph and number of pages. 10. Possibility to visualize into one graph and register into the archive up to no. 5 test contemporaneously, in order to dispose of a complete and global information about the tests performed for the same production batch	1	PC			



QUOTATION

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Our Ref : RNA24020
Page(s) : Page 2 of 3

Item No.	Type	Description	Qty	Unit Price IDR	Total Price IDR	Remarks
		<p>Technical specifications HARDWARE</p> <ul style="list-style-type: none"> - Processor: 312 MHz upgradable till 806 MHz - Display LCD, QVGA (320x240 pixels) Full-color Touch-screen - Cross Keyboard, It can completely replace the touch-screen function (for an easy use with gloves, for example) <p>Hardware - Connectivity</p> <ul style="list-style-type: none"> - 1 x SD card - 2 x USB hosts available for: mouse, keyboard, pen-drive, printer, USB Hub (to expand the number of ports), other peripherals from PC <p>Hardware - I/O</p> <ul style="list-style-type: none"> - 8 Channel ADC Converter (with 2 high resolution channels for use with load cells); Sampling frequency: up to 200 Hz (for all the 8 channels) Number of bits: up to 24 - 8 digital inputs - 8 digital outputs <p>Motor Ignition, Valves activation</p> <ul style="list-style-type: none"> - Expansion Connector <p>Hardware - Control operation</p> <ul style="list-style-type: none"> - 2 x stepper motor controllers 1 x standard controller, 1 x optional controller - Brushless or stepper motor, through Expansion board <p>Hardware - Storage</p> <ul style="list-style-type: none"> - Internal flash memory, dedicated to the software and to the configuration of profiles, machines, channels (including calibrations), etc. - Unlimited memory using external memory devices SD -Card, Pen-Drive <p>Hardware - Various</p> <ul style="list-style-type: none"> - On board thermic graphic printer (Accessory: C127N) - Clock Calendar, buzzer alarm <p>Software</p> <ul style="list-style-type: none"> - Operating system: "Windows Embedded CE 6.0 R3" - User-friendly interface - Easy updating of software and operating system - International setting configuration Multilanguage interface Date/time/numbers formatting system Measurement systems (S.I.; US System) - Software modularity Reference standards and tests compiled through easy to install software modules - Power calculation Superior calculation capacity Graphic representation of the test data Independent use from the PC <p>Software - Languages</p> <ul style="list-style-type: none"> - Italian, English, French, German, Spanish, Russian, Polish, Greek, Portuguese, Dutch, Romanian, Czech. Additional languages on request <p>Software - Licenses</p> <ul style="list-style-type: none"> - Every machine has an unique specific serial number - Compliance to specific standards through dedicated license files <p>Software - Record and report</p> <ul style="list-style-type: none"> - Test records: Data, Results, Chart - Printing: Through on board printer (Accessory C127N) Through PCL printer connected to USB <p>Software - "Maintenance"</p> <ul style="list-style-type: none"> - Available updates: Operating System, Applications, Licenses (backup and restore), Configuration (backup and restore), Software log - New "UTM": machine control through Ethernet (intranet, internet) - Internet connection for remote assistance 				
2	ST - 1478B	<p>CPT BICONUS Special steel hardened with friction jacket, tapered thread 60° angle, 35.7 mm dia.</p>	1 Pcs	4.500.000	4.500.000	INDOTEST - INDONESIA



<https://e-katalog.lkpp.go.id/katalog/produk/detail/68419306?type=general>

GRAND TOTAL	IDR	403,750,000
Indonesian Rupiah : Four Hundred Three Million Seven Hundred Fifty Thousand Rupiahs		
PRICE TERM & CONDITION :		
- All Prices Are Included 11% VAT (PPN)		
- All Prices Are Excluded Standard Wood Packing Charges		
- All Prices Are Excluded Freight Charge to Client Site		
- All Prices Are Excluded Installation & Running Charges		
BANK DETAILS		
BANK NAME'S	: MANDIRI	BANK NAME'S : BNI
ACC. NUMBER	: 130-00-1134059-6	ACC. NUMBER : 130-8196394
ACC. NAME	: INDOTEST MULTI LABORATAMA	ACC. NAME : INDOTEST MULTI LABORATAMA
BANK NAME'S	: BCA	
ACC. NUMBER	: 346-0493331	
ACC. NAME	: INDOTEST MULTI LABORATAMA	

INDOTEST

MATERIAL TESTING EQUIPMENT



INDOTEST MULTI LABORATAMA
Office & Factory : Komplek Kawasan Industri Cibadung Kav. 27
Jl. Cibadung No. 205 - Bandung - 40225
West Java - Indonesia
Phone : +62 22 86612628, 86067570
FAX : +62 22 86067573
Homepage : www.indotest.com
E-mail : sales@indotest.com

QUOTATION

QUALITY IS OUR PRIORITY

Our Ref : RNA24020
Page(s) : Page 3 of 3

Very Truly Yours,

Rifayanti

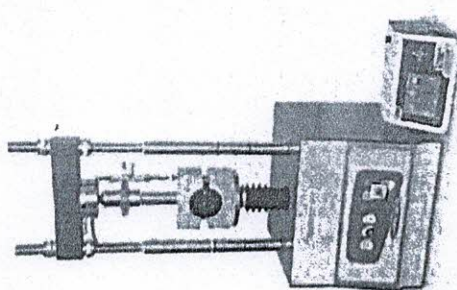
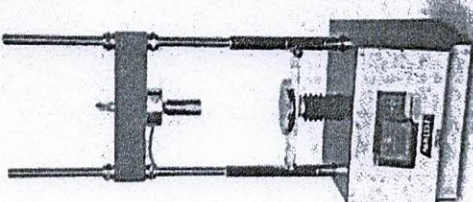
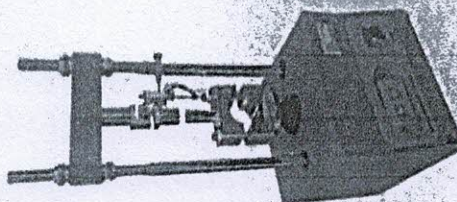
Mobile 081220307654
Mobile 081320303070
INDOTEST MULTI LABORATAMA
Marketing Office
Email : marketing@indotest.com



We hereby would like to confirm the above order with our acknowledgment of acceptance on the sales conditions as stipulated in this proforma invoice above.

Signature & Stamp _____
Name :
Position :
Date :

No.	Spesifikasi	Materi S205N UNITRONIC 50 KN UNIVERSAL MULTIPURPOSE FRAME	Indoest BT - 210AM DIGITAL MICROTECH MARSHALL TEST SET
1	Fungsi alat	Hanya mampu difungsikan sebagai Marshall Test	Hanya mampu difungsikan sebagai Marshall Test
2	Posisi Konsol digital	Konsol digital terpisah dengan frame penekan, dihubungkan oleh kabel tambahan	Konsol digital menyatu dengan frame penekan
3	Tipe planes penekan	Planes tipe standard, dengan pin pelurus untuk memastikan posisi stability breaking head berada di tengah mesin	Planes tipe standard, dengan pin pelurus untuk memastikan posisi stability breaking head berada di tengah mesin
4	Sistem operasi+Kontrol pembacaan	Memiliki sistem operasi Windows CE Memiliki tombol pengoperasian apabila ingin dioperasikan tanpa menyentuh layar.	Sistem operasi Firmware Microtech (buatan lokal), menggunakan layar sentuh saja
5	Visual+ Pembacaan	Memiliki sistem pembacaan digital dengan layar sentuh berwarna.	Memiliki sistem pembacaan digital dengan layar sentuh berwarna.
6	Menu pengaturan	Memiliki pengaturan tanggal/bulan/tahun/jam/menit/detik sebagai kelengkapan data, Memiliki pengaturan bahasa Memiliki pengaturan deskripsi pengujian Memiliki pengaturan ukuran sampel yang akan diuji Memiliki pengaturan kecepatan Memiliki pengaturan pembatasan pembacaan Memiliki pengaturan konektivitas ke komputer	Memiliki pengaturan tanggal/bulan/tahun/jam/menit/detik sebagai kelengkapan data, Memiliki pengaturan deskripsi pengujian Memiliki pengaturan ukuran sampel yang akan diuji Memiliki pengaturan pembatasan pembacaan
7	Sensor pembacaan	Menggunakan load cell sebagai pembacaan beban, dan sensor LVDT sebagai pembacaan flow, sehingga lebih presisi	Menggunakan load cell sebagai pembacaan beban, dan sensor linear potensiometer sebagai pembacaan flow
8	Tampilan pengujian	Memiliki tampilan perhitungan yang berlangsung selama pengesanan (Real Time) dan tampilan grafik beban vs waktu	Memiliki tampilan perhitungan yang berlangsung selama pengesanan (Real Time) dan tampilan grafik beban vs waktu
9	Pengaturan kecepatan	Memiliki sistem pengaturan kecepatan naik piston jack, dimana kecepatan dapat selalu sesuai dengan nilai nilai yang telah diatur (mm/min). Sesuai dengan ASTM D6927 dan ASTM D1159, rentang kecepatan naik piston jack ialah 5045 mm/min	Tidak memiliki pengaturan kecepatan naik, hanya 1 kecepatan yaitu 50.8mm/min, Namun ini tetap sesuai dengan ASTM D6927 dan ASTM D1159, rentang kecepatan naik piston jack ialah 5045 mm/min
10	Pengaturan nilai nol bacaan	Pengujian akan secara otomatis dimulai apabila sudah tercapai ke nilai yang diatur, dan secara otomatis, pembacaan akan kembali ke nol	Pengujian akan secara otomatis dimulai apabila sudah tercapai ke nilai yang diatur, dan secara otomatis, pembacaan akan kembali ke nol

11	Keamanan	<p>Memiliki sistem pembatasan pembacaan, pada saat grafik turun sesuai dengan nilai yang diatur, ataupun bila mencapai flow tertentu maka mesin berhenti secara otomatis</p> <p>Memiliki alarm otomatis, akan aktif apabila pembacaan/pengoperasian tidak normal</p> <p>Memiliki tombol emergency</p> <p>Memiliki ketelitian 50 x 0.001kn</p> <p>Memiliki 8 Channel bawaan</p> <p>Dapat disimpan pada flashdisk berupa file .txt, dan dapat dikonversikan menjadi .xls(excel) pada komputer</p> <p>Memiliki sistem pengaturan koneksi ke komputer, dan setting IP Address agar terintegrasi dengan komputer</p> <p>Dapat dilakukan pengoperasian dari komputer, penyajian data secara langsung dari software dan tampilan penyajian data sudah dengan grafik pengujian</p>	<p>Memiliki sistem pembatasan pembacaan, pada saat grafik turun sesuai dengan nilai yang diatur, ataupun bila mencapai flow tertentu maka mesin berhenti secara otomatis</p> <p>Memiliki alarm otomatis, akan aktif apabila pembacaan/pengoperasian tidak normal</p> <p>Memiliki tombol emergency</p> <p>Memiliki ketelitian 50 x 0.001kn</p> <p>Memiliki 1 Channel bawaan</p> <p>Dapat disimpan pada flashdisk berupa file .txt, dan dapat dikonversikan menjadi .xls(excel) pada komputer</p> <p>Memiliki sistem pengaturan koneksi ke komputer, dan setting IP Address agar terintegrasi dengan komputer</p> <p>Dapat dilakukan pengoperasian dari komputer, penyajian data secara langsung dari software dan tampilan penyajian data sudah dengan grafik pengujian</p>	<p>Memiliki sistem pembatasan pembacaan, pada saat grafik turun sesuai dengan nilai yang diatur, maka mesin berhenti secara otomatis</p> <p>Memiliki tombol emergency</p> <p>Memiliki ketelitian 50 x 0.1kn</p> <p>Memiliki 1 Channel bawaan</p> <p>Dapat disimpan pada flashdisk berupa file .bt</p> <p>Dapat dikoneksikan ke komputer dengan setting COM PORT</p> <p>Software di komputer hanya logger, pengoperasian hanya dapat dilakukan dari mesin. Tampilan penyajian data sudah dengan grafik pengujian</p>
17	Gambar			

7.

Detail Paket

Kode RUP	48643105		
Nama Paket	Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi		
Nama KLPD	Provinsi Sumatera Barat		
Satuan Kerja	DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG		
Tahun Anggaran	2024		
Lokasi Pekerjaan	No.	Provinsi	Kabupaten/Kota
	1.	Sumatera Barat	Padang (Kota)
			Detail Lokasi
			UPTD Laboratorium Bahan Konstruksi Jl. Taman Siswa No. 1 Padang
Volume Pekerjaan	1		
Uraian Pekerjaan	Pengadaan Alat Laboratorium Bahan Bangunan Konstruksi		
Spesifikasi Pekerjaan	Pengadaan Alat Laboratorium Pengujian		
Produk Dalam Negeri	Ya		
Usaha Kecil/Koperasi	Ya		
Pengadaan Berkelanjutan atau Sustainable Public Procurement (SPP)	Aspek Ekonomi	Tidak	
	Aspek Sosial	Tidak	
	Aspek Lingkungan	Tidak	
Pra OIPA / CPA	Tidak		
Sumber Dana	No.	Sumber Dana	T.A.
	1.	APBD	2024
			KLPD
			Provinsi Sumatera Barat
			MAK
			1.03.10.1.01.0024.5.2.02.08.01.0006
			Pagu
			Rp. 387.584.450
	Total Pagu		Rp. 387.584.450
Jenis Pengadaan	No.	Jenis Pengadaan	Pagu Jenis Pengadaan
	1.	Barang	387584450
Total Pagu	Rp. 387.584.450		
Metode Pemilihan	E-Purchasing		
Pemanfaatan Barang/Jasa	Mulai	Akhir	
	April 2024	Desember 2024	
Jadwal Pelaksanaan Kontrak	Mulai	Akhir	
	April 2024	November 2024	
Jadwal Pemilihan Penyedia	Mulai	Akhir	
	Januari 2024	April 2024	
Tanggal Perbarui Paket	2024-01-31 21:06:38.503		

