AM02 - Texas A&M University

Purchase Order

Vendor Number: 00052549
JA Woollam Co Inc
645 M St Ste 102
Lincoln, NE 68508-2285

Material Science & Engineering
Attn: Contact Amy Caldwell at 979-862-2201; email: amy@tamu.edu
Giesecke Engineering & Research Bldg. 1611
1617 Research Parkway
College Station, TX 77843
US
Email: purchasing@tamu.edu
Phone: (979) 845-4570

ATTN: FMO Accounts Payable
750 Agronomy Road - Suite 3101
6000 TAMU
Attn: Email invoices to invoices@tamu.edu
Attn: Do not mail invoice if sending via email
College Station, TX 77843-6000
USA
Email: invoices@tamu.edu
Phone: (979) 845-8362

INVOICING VENDOR SHALL SUBMIT AN ITEMIZED INVOICE SHOWING PURCHASE ORDER NUMBER. IF YOUR INVOICE IS NOT PROCESSED AS INSTRUCTED, PAYMENT MAY BE DELAYED.

Account Code: 02-MSEN-BLANK-241419-80000-----N-AA-CD-EN-L--

Payment Terms: Net 30
Shipping Terms: F.O.B., Destination
Freight Terms: Freight Allowed
Delivery Calendar Day(s) A.R.O.: 90

Please login to Buy A&M to retrieve attachments associated with the Purchase Order.

Solicitation (Bid) No.: AM02-16-B000088

<table>
<thead>
<tr>
<th>Item # 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class-Item 490-90</td>
</tr>
</tbody>
</table>

System Package: M-2000 with Auto Angle Base Model V-370-1000 nm; 390 wavelengths
Basic Package Includes:
Patented Rotating Compensator (RCE) design
All wavelengths are acquired simultaneously
Minimum data acquisition time approximately 50 msec
Typical data acquisition times 1-5 sec
Collimated light beam
Auto angle base ranging 45° to 90°, horizontal sample stage
Automated sample height (Z) alignment
Operator Computer: Core i7-4790 Processor (Quad Core, 8MB, 3.60GHz w/HD4600 Graphics), 4GB RAM, 500GB Hard Drive, Windows 7Pro, 16x DVD +/- RW Drive, 19" FPD monitor, Microsoft Office Home and Business 2013, MiniTower Case. Minimum specifications, subject to change without notice.
CompleteEASE software for data acquisition & analysis (5-seat license)
1 day on-site installation and training
5mL Heated Liquid Cell-
5mL Liquid Capacity
75° angle of incidence
Designed for glass slides & 2? wafers
Temperature control from room to 50°C
No active cooling
Additional 5mL heated reservoir prior to cell
3 flow configurations
<table>
<thead>
<tr>
<th>Quantity</th>
<th>Unit Price</th>
<th>UOM</th>
<th>Discount %</th>
<th>Total Discount Amt.</th>
<th>Tax Rate</th>
<th>Tax Amount</th>
<th>Freight</th>
<th>Total Cost</th>
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<tbody>
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LN/FY/Account Code
1/16/02-MSEN-BLANK-241419-80000-8422----842250-N-AA-CD-EN-L--
Dollar Amount
$85,000.00

Item #2
Class-Item 490-90
Ellipsometry Short Course Attendance: Includes fee for attending the CompleteEASE Ellipsometry Short Course in the USA for one person. Does not include airfare, travel, accommodations, meals or other expenses. Must be used within two years of purchasing the ellipsometer.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Unit Price</th>
<th>UOM</th>
<th>Discount %</th>
<th>Total Discount Amt.</th>
<th>Tax Rate</th>
<th>Tax Amount</th>
<th>Freight</th>
<th>Total Cost</th>
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<tbody>
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LN/FY/Account Code
2/16/02-MSEN-BLANK-241419-80000-5751-----N-AA-CD-EN-L--
Dollar Amount
$0.00

Item #3
Class-Item 490-90
Estimated Freight Charges - FOB Destination, Texas A&M University - College Station, Texas 77843. All equipment must be fully insured against loss and damage during shipping.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Unit Price</th>
<th>UOM</th>
<th>Discount %</th>
<th>Total Discount Amt.</th>
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LN/FY/Account Code
3/16/02-MSEN-BLANK-241419-80000-5751-----N-AA-CD-EN-L--
Dollar Amount
$475.00

TAX: $0.00
FREIGHT: $0.00
TOTAL: $85,475.00

ANY EXCEPTIONS TO PRICING OR DESCRIPTION CONTAINED HEREIN MUST BE APPROVED BY THE TEXAS A&M UNIVERSITY AGENCY PROCUREMENT OFFICE PRIOR TO SHIPPING.

The State of Texas is Exempt from all Federal Excise Taxes.
State and City Sales Tax Exemption Certificate: The A&M System claims an exemption from taxes under Chapter 20, Title 122A Revised Civil Statutes of Texas for purchase of tangible personal property described in this order, purchased from Vendor listed above as this property is being secured for the exclusive use of the State of Texas.

The Terms and Conditions of the State shall prevail.

FAILURE TO DELIVER: If the Vendor fails to deliver these supplies by the promised delivery date or a reasonable time thereafter, without giving acceptable reasons for delay, or if supplies are rejected for failure to meet specifications, the State reserves the right to purchase specified supplies and equipment elsewhere, and charge the increase in price and cost of handling to the Vendor. No substitution or cancellations permitted without prior approval of The Texas A&M University System.

STATE OF TEXAS AND THE TEXAS A&M UNIVERSITY SYSTEM TERMS AND CONDITIONS APPLY.

APPROVED
By: Angel Constancio
Email: agc@tamu.edu
Phone#: (979) 845-3847

BUYER