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| Requisition Number<br><b>108415</b> | Requisition Date<br><b>February 12, 2003</b> |
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**PURCHASE REQUISITION**

|            |              |
|------------|--------------|
| Order Date | Order Number |
|------------|--------------|

|                                   |                                       |  |                      |
|-----------------------------------|---------------------------------------|--|----------------------|
| Originator<br><b>Donald Figer</b> | Approvals as Applicable               | Manager<br><b>Don Figer</b>            | Dir. of Program Mgt. |
| Deliver To<br><b>Donald Figer</b> | Total Est. Value<br><b>\$7,118.00</b> | Division Head<br><b>Peter Stockman</b> | Director             |



SPACE TELESCOPE SCIENCE INSTITUTE  
3700 San Martin Drive  
Baltimore, MD 21218

| Suggested Vendors | Name and Address                 | SDB |
|-------------------|----------------------------------|-----|
|                   | Sciencetech                      |     |
|                   | 45 Meg Drive                     |     |
|                   | London, Ontario, Canada, N6E 2V2 |     |

[x] Sole Source Vendor (Justification Attached)

| Buyer Code |                 | Delivery Required<br><b>03/28/2003</b> | Delivery Promised |     |     | F Origin - PPY & CHG.<br>O Origin - FRT. Allowed<br>B Destination  | Ship Via   | Payment Terms |
|------------|-----------------|--|-------------------|-----|-----|--|------------|---------------|
| Item No.   | OBS             | Project/WBS                            | Trans Code        | QTY | U/M | Description  | Unit Price | Total Price   |
| 1          | 1.1.01.22.00.00 | J0302                                  | 0545-001          | 2   | ea. | <b>I. Si-Ge-PA Room Temperature Si-Ge detector system with power supply</b><br><br><b>1a. Si-Ge-PA Two-color photodiode detector head Silicon-Germanium room temperature Dual Detector (range 300nm to 1.8 μm). Preamplifiers and electronics for both Si and Ge detectors are included in the detector head.</b><br><br><b>Package TO8</b><br><b>Detector position TOP</b><br><b>BOTTOM</b><br><b>Detector Type UV-Si Ge</b><br><b>Active diameter 2mm 2mm</b><br><b>Spectral range 300-1000nm 1000-1800nm</b><br><b>Responsivity, V/W@pk</b><br><b>0.6.x108/0.6x107:</b><br><b>0.6.x107/0.6x106</b><br><b>Noise, V/Hz<sup>1/2</sup> 1.2x10-6/1.2x10-7 : 4.0x10-6/4.0x10-7</b><br><b>NEP 2x 10-14W/Hz<sup>1/2</sup></b><br><b>7x 10-13W/Hz<sup>1/2</sup></b><br><b>Bandwidth( -3dB) DC-2kHz</b> | \$2,085.00 | \$4,170.00    |

|   |                 |       |          |   |     |  |            |            |
|---|-----------------|-------|----------|---|-----|--|------------|------------|
|   |                 |       |          |   |     | DC-2kHz<br>1b. PS-1 power Supply for room-temperature Si-Ge detector   |            |            |
| 2 | 1.1.01.22.00.00 | J0302 | 0545-001 | 1 | ea. | Description: Calibration of two Sensors packages<br><br>III. Calibration<br><br>Calibration of Si-Ge detector will be carried out from 350 - 1750 nm with the following accuracies;<br>- at 350 nm with 2.5% 3d accuracy<br>- 400nm - 1000nm every 10 nm with 1.5 % 3d accuracy<br>- at 1250 nm with 1.5% 3d accuracy<br>- at 1500 nm with 2%<br>- at 1750 nm with 2.5% accuracy relative to NIST. | \$2,898.00 | \$2,898.00 |
| 3 | 1.1.01.22.00.00 | J0302 | 0545-001 | 1 | ea. | Packaging  | \$50.00    | \$50.00    |

**Technical Justification:**

These calibrated sensors will be used to calibrate the detector system for the NDC project.

**Sole Source Justification:**

Sole Source Justification: Only Sciencetech offers dual Si-Ge photodiodes sensors in a single detector head package with superior detector responsivity and noise performance needed in calibrating the IDTL NIR detectors.

**General Infomation:**

Sciencetech Quotation T-030201  
Date: February 4, 2003  
45 Meg Drive, London, Ontario, Canada, N6E 2V2  
Phone (519) 668?0131, Fax: (519) 668?0132  
E-mail: sales@sciencetech-inc.com

Delivery time should be no later than 6 weeks ARO.

DO NOT USE VENDOR PROVIDED SHIPPING, AS THEIR COSTS ARE EXCESSIVE.  
Instead, use FedEx 2-day shipping on STScI account number 1794-4412-7.

Please hold this purchase until final verbal approval by Don Figer.

|                      |   |   |       |
|----------------------|---|---|-------|
| Confirming Order To: | Maryland Sales Tax<br>IS NOT Applicable | Govt. Property Requirements<br>Mult. Bar Code [ ] | TOTAL |
|----------------------|---|---|-------|

|  |  |   |  |
|--|--|---|--|
| DO NOT DUPLICATE   |  | DD 1419 Req'd Yes [ ] No [ ]            |  |
| <u>VENDOR:</u> (Name, Address) Code No. _____<br><br>Attention: _____  |  | <u>SHIP TO:</u><br><br>Attention: _____ |  |
| GSA Schedule IS [ ] IS NOT [ ] applicable<br>RE: GSA Schedule No _____ |  | BUYER: _____<br>DATE: _____             |  |