

## Demande Achat Interne (DAI) 5153227

This document has 1 attachment

**By signing this request, you acknowledge your responsibilities related to the approval of the DAI and that the supplies concerned are required by the Organization.**

Created by **David BARNEY (PH-CMX-DS)** Tel: 71529 164644 on 13.12.2012

### General Information

General Description \*: **DP2-447 laser system for CMS ECAL**  
 Technical Contact \*: **David BARNEY (PH-CMX-DS) Tel: 71529 164644**  
 Supplier: **PHOTONICS INDUSTRIES INTERNATIONAL INC, 390 Central Avenue, NY 11716 BOHEMIA (PHOT30, MA01)**  
 Country of Distribution : **US**  
 Currency \*: **USD (Dollar US)**



**Please verify that the specified currency is correct**

Divisional Request (CFU) No:  
Contract:



**For DAI between 50,000 CHF and 200,000 CHF, it is recommended to enter either a contract number or the number of the linked DR**

Delivery Costs included \*: **Yes**

Indicate whether this requirement involves "Research and Development" and/or prototype work? \* **No** *If yes, please provide additional details in a justification to be enclosed to this DAI.*

**Total Value: \$171,000.00 (SFr. 165,870.00)**

### Order Lines

Item	Quantity	Description	Unit Price	Price
1	1	<b>DP2-447 laser</b> DP2-447 diode-pumped 447nm solid state laser Budget Codes: <b>T631010 CMS ECAL M&amp;O_B</b> , Country of origin: <b>US</b> , Delivery: <b>27-2-012</b> , Activity Codes: <b>816</b> , Goods already delivered: <b>No</b>	\$162,000.00	\$162,000.00
2	1	<b>Two external triggers</b> Customized option to have two external triggers Budget Codes: <b>T631010 CMS ECAL M&amp;O_B</b> , Delivery: <b>27-2-012</b> , Activity Codes: <b>816</b> , Goods already delivered: <b>No</b>	\$5,000.00	\$5,000.00
3	1	<b>Ciller + heater</b> External chiller unit with heating option Budget Codes: <b>T631010 CMS ECAL M&amp;O_B</b> , Delivery: <b>27-2-012</b> , Activity Codes: <b>816</b> , Goods already delivered: <b>No</b>	\$4,000.00	\$4,000.00



You are reminded that members of personnel shall not collect goods directly at the supplier's premises

### Additional Information

Purchasing officer: **Sandrine MAGNAN**  
 Comments to Purchasing officer: In 2012 the CMS Electromagnetic Calorimeter (ECAL) Group purchased a new diode-pumped laser system, called DP2-447, for monitoring the transparency of the ~80000 lead tungstate crystals. This monitoring is critical to maintaining the performance of the ECAL throughout the coming 10 years. The new laser proved to be extremely stable and reliable, much more so than the original lamp-pumped lasers installed nearly a decade ago that are at the end of their lifetime now. The DP2-447 is a bespoke device produced by Photonics Industries in New York. It was ordered by Caltech, where the initial commissioning was performed in early 2012 before being transferred to CERN. It has been operational throughout 2012.

In order to ensure 100% availability through to the end of LHC operation (around 2022) it is mandatory to have a fully-redundant system. We are therefore ordering an identical DP2-447 laser from Photonics. In contrast to the first DP2-447 laser, this second one will be purchased through a CMS Team Account. The laser should still be delivered initially to Caltech for commissioning prior to being sent to CERN for installation in 2013.

This is a single-source order of an item and its ancillaries that is identical to an existing device.

Comments to supplier: To the attention of Ms. Alexandra BELLO

According to your quotation Q12-1121AB dated 13th December 2012 (attached)

<INTOCH>

<PAFE>

<GA2E>

Other Comments:

Offer Information:\*

I confirm that I have attached the offer corresponding to the DAI here above as well as the required justifying document in the case of a single tender for an amount of 5000 CHF or above.

### Purchase Officer Information

Invoice Control *:	Order Type *:	---
Language:	Depot:	
TaxType:	Incoterm:	
Signatory1: ---	Signatory2:	---
Reference number:		

### Document Status

13.12.2012 20:20	Approved by creator BARNEY
13.12.2012 20:20	With Tommaso TABARELLI DE FATIS for signature requested by David BARNEY awaiting approval
14.12.2012 00:15	Approved by TABARELLI DE FATIS
14.12.2012 00:15	Forwarded for information to Jean FAY by Tommaso TABARELLI DE FATIS
14.12.2012 00:15	With Andrzej CHARKIEWICZ for 165870.00 CHF signature on T631010 awaiting approval
17.12.2012 10:17	Approved by CHARKIEWICZ
17.12.2012 10:17	Automatic budget control: transaction accepted
17.12.2012 10:17	With Purchase Officer Pool awaiting approval