

التاريخ: 7/2/2018

السادة: المحترمين

تلفون:

فاكس:

الموضوع: عروض اسعار جهاز فحص كمية الأشعة TLD رقم /الاستدراج : (Q145-2017.18)

إشارة إلى الموضوع اعلاه الرجاء تزويدنا بأسعار اللوازم التالية (بالدولار) شامل لضريبة القيمة المضافة والتوصيل للجامعة العربية الأمريكية:

الرقم	اسم الصنف	الوحدة	الكمية	السعر	اجمالية تكلفة البند
1	جهاز فحص كمية الأشعة TLD التي يتعرض لها الفني- مرفق المواصفات على الصفحة الثانية والثالثة	EACH	60		
	المجموع الكلي				

شروط الاستدراج

- 1- يرجى العلم ان اخر موعد لتسليم العروض هو يوم (الأربعاء) الموافق 14/2/2018
- 2- الاسعار شاملة لضريبة القيمة المضافة.
- 3- ضرورة تحديد مدة التوريد من تاريخ استلام امر الشراء، و في حال عدم الالتزام يتم فرض غرامة تأخير .
- 4- ختم وتوقيع المورد المعتمد على هذا النموذج، وكتابة رقم الاستدراج واسم الشركة كما هو مسجل لدى الضريبة على الظرف.
- 5- لا تقبل العروض الا بالظرف المختوم.
- 6- للمراجعة والاستفسار بخصوص المواصفات يرجى الاتصال على هاتف 042418888 رقم داخلي 1491 او فاكس 042510972 أو بريد الكتروني pnp@aauj.edu.
- 7- لمشاهدة العطاءات والاستدراجات، يرجى الدخول الى الرابط <http://www.aauj.edu/Tenders>

مدير دائرة اللوازم و المشتريات

أ. حسن ربيعة

Technical specifications

Description

This specification pertains to the acquisition of personal dosimeters and dosimeter holders for the personal dosimetry service of the Radiation Protection and Detection Unit/MOH.

The acquisition is in relation to 1000 Card dosimeters and 1000 dosimeter holders.

The personal dosimetry service currently uses two TLD readers of the following type: Harshaw TLD Model 4500 and thermo scientific TLD Model 4500.

Personal dosimeters currently used by the service are of the type TLDCARD-21C/0110 and dosimeter holders in current use are of the type TYPE8814 from Thermo Scientific.

The personal dosimeters contain two dosimeter elements of the type TLD-100, .

The dosimeter holders include filters that cover the dosimeter elements when they are placed in the holder.

The dosimeter holder opens via use of a corresponding opening tool.

It is a mandatory requirement that tendered dosimeters and dosimeter holders should be compatible with existing dosimeters and existing dosimeter holders. Existing and tendered dosimeters should be able to be used in tendered dosimeter holders, and tendered dosimeters should be able to be used in existing dosimeter holders. Technical properties of tendered dosimeters and holders will be equal or similar to existing dosimeters and holders.

Tenders must relate to both components – the personal dosimeters and the dosimeter holders.

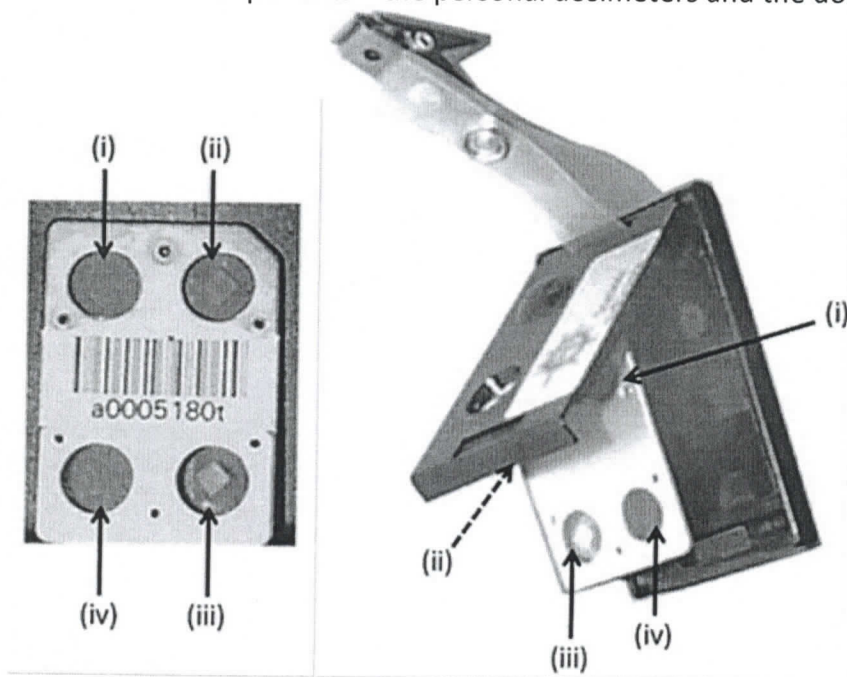


Figure 1: Illustration of current dosimeters and dosimeter holders.

Dosimeters

Tenders are required for 1000 card dosimeters.

Dosimeters shall consist of two dosimeter elements of the type TLD-100 - LiF (Mg, Ti).

Dosimeter elements in position ii) of Figure 1 shall be 3,2 mm x 3,2 mm x 0,38mm.

Dosimeter elements in position iii) of Figure 1 shall be 3,2 mm x 3,2 mm x 0,15 mm.

Dosimeters shall have unique, individual serial numbers, and shall be marked with both barcodes and visible serial numbers. The barcodes shall be readable in the current TLD readers (see above) and be compatible with the barcodes on the currently used dosimeters.

The serial number and barcode of the dosimeters shall be visible and legible when placed in the dosimeter holders.

Dosimeters shall be of the type Thermo Scientific TLDCARD-21C/0110 or equivalent, and shall be readable in the currently used TLD-readers – Harshaw TLD Model 4500 and thermo scientific TLD Model 4500.

Dosimeter holders

Tenders are required for 1000 dosimeter holders.

The dosimeter holders shall include a fastener. The fastener shall be such that the dosimeter holder may be fastened to clothing etc. of the people who use the dosimeter.

The filters in the dosimeter holders should be equal or similar to those of dosimeter holders of the type TYPE8814. The filters shall be designed for the measurement of the two dosimetric quantities $H_p(10)$ and $H_p(0.07)$ as defined in ICRU report 51 (International commission on radiation units and measurements, "Quantities and units in radiation protection dosimetry- ICRU report 51 ". Bethesda, Maryland USA. (1993)).

The dosimeter holders shall be such that they may be opened with existing opening tools, or opened without tools.

The dosimeter holders shall be of the type Thermo Scientific TYPE8814 or equivalent.

Documentation

The dosimeter properties (both the dosimeter and dosimeter holder) shall be fully documented. The documentation must include as minimum the **energy response** and **directional response** of the two components. Signal leakage during storage (**fading**) must also be included in the documentation. It should be documented over how many reading cycles the dosimeters have been tested.

Documentation must be included as to the properties of the tendered dosimeters and dosimeter holders being identical or similar to the current dosimeters and dosimeter holders.

Documentation must be included as to the tendered dosimeters and dosimeter holders being compatible with the current dosimeters and holders.

3/3

