Ref No:	CMEB-ZY-1444-19	Date: <u>08-05-2019</u>
To:	M/s	Fax No:

Subject: Quotation for Material / Equipment

We intend to purchase goods detailed as on attached annexure. Kindly send us your best offer in accurate with following General Conditions as stated below:-

#### General Conditions:

in

a) Submission of Quotation:

Quotation may be sent immediately through Fax or Courier but Original Proforma Invoice along with detailed technical brochures / literature must reach us by mail before the last date mentioned below.

a) Currency:

Quotation should be in RMB.

b) Last Date of Quotation:

03-06-2019

c) Validity:

At least 90 days.

d) Prices Basis:

Firm and Fix C&F Prices

e) Payment Mode:

- We accept payment through L/C with condition that all domestic bank charges will be borne by us while all bank in beneficiary's country including all L/C conformation (if desired by the supplier) charges will be borne by the beneficiary, OR payment may be made against shipping documents OR after delivery of goods ( in case of small value).
- We accept Pre-payment only against unconditional & irrevocable Bank Guarantee through First Class Bank.

Note:

# While arranging offer following must be complied with:-

a. Quotation must be accompanied with detailed technical literature/brochure, manufacturing drawings, operational manuals, repair / maintenance manual, circuit diagrams in English language.

# ltem # 01

# **Electronic Pocket Dosimeter**

Quantity: or Nos.

# Physical Characteristics Measurement and Display

- X and Gamma Energy Range: 15KeV to 7MeV
- Energy response better than ± 20% (Typical ±10%) from 15KeV to 7MeV

#### Accuracy Hp (10)

≤ ± 5% (Cs-137)

≤ ± 10% (X-ray 16KeV)

#### **Dose Rate Linearity**

 $\leq$  ± 20% up to 10Sv/hr (1000 rem/hr) (Co and X-rays 20Kev)

 $\leq$  ± 20% up to 5Sv/hr (500 rem/hr) (pulse X-rays 1 msec. to 10sec. width)

#### Measurement Range

Dose: 1µSv to 10 Sv (0.1 mrem to 1000 rem)

Rate: 0.10µSv/hr to 20 Sv/hr (0.01 mrem/hr to 2000 rem/hr)

Saturation Indication: Above 10Sv (1000 rem) or 10Sv/hr (1000 rem/hr)

#### 2. Electronic Characteristics

Battery: Standard AAA (LR03) 1.5 V Alkaline

# 3. Mechanical Characteristics

Case: Rugged, high impact polycarbonate-ABS

Dimensions: 87 × 60 × 21 mm (3.4 × 2.3 × 0.8 in) max. Without clip

Weight: <88 g (3.1 oz) with alkaline battery and clip

Replaceable Clip: two back clips and front facing clip

#### 4. Environmental Characteristics

Temperature Range: -10 °C to 50 °C

Relative Humidity: < 90% @ 42 °C

Storage: -20 °C to 71 °C

Shock, vibration and drop resistant (1.5 m on concrete)

#### 5. Functional Features

#### Display Features

- · LCD display with high quality white back lighting;
- 8 alpha numeric digit display for full name display and fixed dose rate display format;
- 2 push buttons for an easy customized data and parameters display.

#### 6. Alarm Features

- Adjustable dose and dose rate alarms;
- Adjustable and acknowledgeable dose and dose rate warnings;
- · Configurable visual and audible alarm chip;
- Configurable latched dose rate alarm and warning;
- · Remaining time before alarm and run time alarms.

2/3

>ltem# 02

# Contamination Monitor

Quantify 2 01 No.

# (Technical Specifications)

### 1. Specification

Detector type	Proportional Counter / plastic scintillator
Active area	Min. 100 × 100 mm
Effective energy range	0.2 – 2.5 MeV
Power supply	alkaline or rechargeable Batteries
Battery life	approx. 120 hours (without back illumination)
Temperature range	from -20 to +40 °C
Humidity range	Max. 90 % non-condensate.
Units	cps, cps/cm <sup>2</sup> Bq, Bq/cm <sup>2</sup>

#### 2. Model

Capable of measuring alpha (α), beta (β) and gamma (γ)

# 3. Example of Radiometric Parameters

1	Radionuclide	Min. Efficiency [%]	Min. Detection threshold [Bq/cm²]
!	a-Emitter	39	0.28
	β-Emitter	50	0.16
-	γ-Emitter	43	0.17

> Item No. 3

Radiation Survey Meter

Quantity: 01 No.

# **Technical Specification:**

- 1. A mini, rigid stand alone portable multi-purpose dose rate meter with built-in probe must be capable of wide measurement range of 1 µSv/hr to 1 Sv/hr;
- 2. Energy range 45 KeV to 3 MeV;
- 3. The unit should be capable of measuring dose rate in Sv/hr as well as activity level in Bg/ cm<sup>2</sup>;
- 4. Analog & Digital display;
- 5. Automatic Range switching;
- 6. Non-volatile dose memory
- 7. Individually programmable dose and dose rate alarm threshold.