



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited

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Supply and Commissioning of Medical equipment for the District Integrated Public Health Laboratory

(Discipline-Haematology)

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-99/2023

Dated-24.02.2023

AMENDMENT-I

Revised Technical Specification

Secondary Standard Dosimeter including water phantom

1. A compact high precision and independent secondary standard dosimeter with necessary calibration certificates should be supplied for routine QA checks and absolute dose measurements in photon beams.
2. The Secondary Standard Dosimeter is to be comprised of an waterproof ionization chamber (with cobalt 60 build-up cap) of 0.6 cc volume made up of air equivalent material whose data to be available in TRS for determination of N (d,w) and K(Q,Q0) with connecting cable and an electrometer with TNC / M type connectors for both should be provided.
3. The length of the connecting cable should be 20 meter or more. For backup an extra electrometer cable may be provided.
4. Variation of chamber voltage along with voltage toggling between +ve and -ve values should be possible for measurement of the correction factors as per TRS 398.
5. Measurement in charge mode and current mode to be possible in the electrometer.
6. Both dose and dose rate should be measured and displayed simultaneously.
7. New dosimeter should be supplied along with calibration factors N(k), N(d,w) for **cobalt – 60 with at least 1 year of validity from the time of installation.**
8. Necessary manuals for chamber and electrometer should be provided.
9. Administrative login is preferable for performing important tasks like adding detectors or changing the calibration.
10. All the instruments should be US FDA and / or European CE **(4 digit notified body)** approved.
11. At least two power cords should be provided to connect the electrometer with main power supply along with a good power supply extension board.

12. Compatible TRS water phantom (dimension: 30x30x30 cm³ or more, with proper water outlet facility and variable depth measurement facility is preferable) for the absolute cobalt external beam dosimetry should be provided.
13. The total product should be under five and more years warranty and after warranty five years Comprehensive Maintenance Contract should be provided.
14. Calibrated one digital thermometer (with 0.1° C resolution) and one barometer (with 0.1 mbar resolution) with calibration certificate.
15. Distilled water (100 liters or more) for Cobalt 60 output measurement should be provided.
16. Total rate and the rate of each spare parts should be mentioned separately.
17. Lists of consumable parts should be quoted separately.

Following components are required:

- One Farmer Type Waterproof Ionization Chamber (volume 0.6 cc)
- One compatible Electrometer
- Compatible Connection Cable With Connectors (length should be 20 meter)
- One compatible Water Phantom (dimension: 30x30x30 cm³ or more) with variable depth measurement facility is preferable.
- Calibrated one digital thermometer with sensor, spirit level and one digital barometer.
- Distilled Water (100 liters or more)
- 1 no. of Trolley for carrying SSD