Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited
Swasthya Sathi
GN-29, Salt Lake, Sector-V
Kolkata-700091

Phone No (033) 40340307/320
E mail: procurement@wbmsc.gov.in

Supply and Commissioning of Bone Mineral Densitometer (BMD) Machine for Department of Geriatric at MCH, Kolkata

(Submission of Bid through *online*)

(2nd call of bid Reference No.: WBMSCL/NIT-179/2023; Dated-18.04.2023)

Bid Reference No.: WBMSCL/NIT-251/2023	Dated-16.05.2023

AMENDMENT-I

REVISED TECHNICAL SPECIFICATION
Bone Mineral Densitometer (BMD) Machine

Dual Energy X-Ray Absorptiometry (DEXA) - One Unit (216 detectors):

1) **Scanner Hardware and Acquisition Technology**

i) Multi-Detector Array Scanning Method
ii) 216 Multi elements High-resolution Digital Detector Array. Please specify the technology used. Or Narrow fan beam technology.
iii) High Frequency X-ray Generator
iv) Fan beam technology for faster acquisition
v) X-ray System dual-energy for dual energy scanning.
vi) Indexing Scan Table with Positioning Accessories
vii) Dynamic Internal Reference System for Continuous Calibration
viii) Computer Console.

2) **Quality Assurance**

i) Automatic PASS/FAIL Quality Control
ii) Express BMD in 10-15 Second Acquisition for spine and hip studies

iii) Window/Level Control for Image Optimization
iv) Express Exam Workflow Management (preferable)
v) One Time Auto Analysis with Histogram. (preferable)
vi) Capability to draw outline of vertebrae automatically should be available
vii) Auto Hip Positioning capability
viii) Reposition/Rescan Feature
ix) Automatic Scan Comparison for Serial Exams
x) Least Significant Change Configuration
xi) Automatic calibration using internal reference system
xii) Automatic quality control program with multiple-system checks.

3) Radiation Dose

i) < 0.10 mGy

4) Clinical Applications

i) AP Lumbar Spine with Automatic Low Density Analysis and Scoliosis Analysis
ii) Supine Lateral Spine with Baseline Compensation
iii) Proximal Femur, Automatic Low Density Analysts and Hip Structure Analysis (HSA) Feature
iv) Dual Hip Feature
v) Forearm examination feature
vi) Whole Body BMD
- Advanced Body Composition Analysis with Inner Core
- Visceral Fat Assessment
vii) IVA HD with Image Pro High Resolution Imaging Capability / equivalent technology
- Quantitative Morphometry
- Capability to automatically grade vertebral deformity and communicate this data directly to reporting software.
viii) Atypical Femur Fracture Assessment (AFF) High, Resolution Imaging Capability
ix) Analysis for Spine, Femur and Forearm
x) Whole Body with Body Composition Assessment
xi) Vertebral fracture assessment (VFA)
xii) TBS (trabecular bone score)
xiii) Paediatric BMD software
xiv) HIP morphometry software
xv) Body composition

5) Connectivity/Reporting Tools

i) Report with Rate of Change Assessment
ii) FRAX 10 Year Fracture Assessment feature
iii) Dual Hip Report capability
iv) IVA/VFA

6) Reference Data

i. Reference Data m >18000
ii. Default NHANES III Standardized database

iii. Age, Sex and Ethnic matched reference data

7) **Patient Weight Limit :** Minimum 150 kg

8) Computer Hardware

i. Computer Workstation with Dual Core 3 GHz
ii. Windows® 10 Professional
iii. 19" Widescreen LCD Monitor
iv. Colour laser printer
v. Online 3 KVA UPS with minimum 30 minutes battery backup for the entire system including operation of DEXA machine, computer and printer.

9) Trabecular bone scoring Software

Vendor to supply this software to be used for bone micro architecture evaluation from bone densitometry examinations.

10) Warranty & C-AMC

- Standard 02 Years Warranty. This will cover all the items including DEXA (including detectors, cable and scanner components), UPS, Computers, Software and all the work done under turnkey. After the warranty over, C-AMC for next 10 years on hospital terms and conditions to be submitted by Vendor.
- Vendor will provide free of cost any .new software available for this platform in the next 10 years.

11) Application Training

- On site application training for 05 days

12) Mandatory Requirement: Offered model should be USA FDA or European CE(4 digit notified body) or BIS approved.