

Notice Inviting e-Tender
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SUPPLY OF X-RAY MACHINES & COMPUTED RADIOGRAPHY ATTACHMENT IN THE
HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.

Bid Reference No.: WBMSCL/NIT- 35 /2014

Dated- 23 .05.2014

Date of Publication of Amendment: 14.06.2014

The following amendment has been made in the tender document,

Amendment II (Revision of Technical Specification)

The revised technical specifications for the item is given below,

SCHEDULE - III

X-Ray Machine (200 mA) – Floor Mounted Column Stand

a) Description & Function

- i)** X-Ray machine is required to perform radiological studies in emergency, trauma departments and also in the radiology Department for conventional radiography.
- ii)** Exposures with remote control (wired or wireless) should be possible.

b) Technical Specification

(i) The Generator

- Must be microprocessor controlled high frequency, output 15 KW or above to give a constant output suitable for radiography.
- Shortest Exposure time 5 ms or lower.
- Free selection of diagnostic setting in two point technique. KV and mAs to be adjusted.
- It should have electronic timer and digital display of mAs & KV.
- Should provide with Grid.
- KV range - 40kV to 125kV.
- mA range - 10mA to 200mA.
- Should have voltage compensator.

(ii) X-Ray tube

- Dual focus X-Ray tube.
- Output should match the output of the generator.
- Should have rotating anode.
- The unit should be offered with 1 (one) collimator.
- Should have Inherent filtration.
- The exposure release switch should be detachable with a cord of at least 5 meters.
- Remote control operating distance >10feet.

(iii) System configuration Accessories Spares and Consumables

- Removable foot rest - 01
- Lead aprons - 02.

- Lead separator for operating unit - 01 with 3 folds
- Automatic voltage stabilizer of commensurate capacity to run the entire system in case of low line voltage.

(iv) Patient Table

- Manual & tiltable.
- Table should be compatible of cassette size 14" X 17" , 12" x 15" , 10" x 12" & 10" x 8" with high grid ratio 6:1 and density more than 50 lines per cm. Grid should be aluminium interspaced.
- Table top should be radiolucent with negligible X-Ray absorption, stain free, Break resistant and water proof
- The offered Equipment should have sufficient stock of spares in local office.
- **Vertical Bucky Stand -**
Fully counter balance bucky wall stand for cassette size 14" X 17" , 12" x 15" , 10" x 12" & 10" x 8" with high grid ratio 6:1 and density more than 50 lines per cm. Grid should be aluminium interspaced.

(v) Environmental Factors

- Operating temperature 10 - 40 °c
- Storage Temperature - 20-55 °c
- Operating Humidity - 30%-80%
- Storage Humidity - 10% -100%

(vi) Power Supply (3 Phase)

- Resettable Over current Breaker shall be fitted for protection.

(vii) Standards & safety

- Should comply with AERB & BIS Guidelines for radiation leakage & X-Ray equipment.
- Should have protection against electrical shock.
- Log Book with instruction for daily, weekly, monthly & quarterly maintenance checklist. The job description of the hospital technician and company engineer should be clearly spelt out.

(viii) Warranty & CMC

- Warranty for 5 years followed by 5 years Comprehensive Maintenance Contract (CMC) of complete system.

(ix) Documentation

- User manual in English.
- Service manual in English.
- List of important Spare parts & accessories with their part number & costing should be available for at least 10 yrs.
- Certificate of calibration & Inspection from Factory.