



नेपाल सरकार

स्वास्थ्य तथा जनसंख्या मन्त्रालय

**कोशी अस्पताल**

बिराटनगर, मोरङ

मिति- २०८२।०९।८ गते

विषय: दररेट उपलब्ध गराइदिने सम्बन्धमा।

श्री सरोकारवाला सबै

प्रस्तुत विषयमा चालु आ .व. ०८२।०८३ को बजेट तथा कार्यक्रम अनुसार यस अस्पतालको लागि तपशीलको सलग्न बमोजिमको सिटी स्क्यान मेशीन खरिद गर्नुपर्ने भएकोले लागत अनुमान तयार पार्ने उद्देश्यका लागि सम्बन्धीत फर्मले उपलब्ध गराउन सक्ने दररेट तथा फर्मका आवश्यक कागजात सहित ७(सात) दिन भित्र उपलब्ध गराइ सहयोग गरिदिनु हुन अनुरोध छ ।

तपशील /दररेट पेश गर्नुपर्ने सामानको विवरण

| SN | Item Name and Description | Specification | Name of Company/Country<br>Brand/Model | Quantity | Unit | Per unit Rate | Vat | Total |
|----|---------------------------|---------------|--|----------|------|---------------|-----|-------|
| 1  | <b>CT Scan Machine</b>    | सलग्न छ       |  | 1        | set  |               |     |       |

## **Summarized Technical Specification of CT Scan Machine**

1. **Spiral Multi-Slice CT Scanner which is capable of producing 128 or more transverse cross-sectional slices simultaneously in one rotation without undergoing any axial motion in body and Cardiac Scan.**
2. **The detector shall have at least 64 rows of detectors.**
3. **Matrix Size:**
  - Display Matrix of 1024 X 1024 or more.
  - Reconstruction Matrix of 512 X 512 & 1024 X 1024.
4. **Minimum Slice thickness of 0.625 mm or less in Spiral Mode.**
5. **The system should have inbuilt touch screen panel /push button system on the both sides which should work independently to have smooth workflow.**
6. **Gantry:** Aperture of 70 cm or more, Tilt of +/-25 degree or more, Scan Field of View of 50 cm or more.
7. **X-Ray Generator:** The Generator should be of high frequency type and having at least 70 KW output with tube current in the range of 40-500 mA or more.
8. **X-ray Tube:** Tube of high heat storage capacity 7 MHU or more, Tube voltage: 80-135 kV or more and mA range: 40-500 mA or more
9. **Operator Console or main workstation:**
  - It should have a large 24" or more high-resolution LCD color monitor with a display 1024 X 1024 matrix or more.
  - High performance computer CPU with at least 3.6 GHz processing and 16 GB RAM or better.
  - Raw Data storage with at least 1TB hard disc having image storing capacity of 5, 00,000 images or more in 512x512 format.
  - Full DICOM 3.0 compliance for seamless integration with PACS/RIS/HIS systems.
  - Capability to print to both a dry film printer and a laser color printer.
  - System must be supplied from the same principal CT manufacturer, ensuring compatibility, uniform user interface, and vendor-supported upgrades.
10. **Independent Workstation/ Separate Client Workstation (2 nos.)**
  - The system shall have two (2) Separate client work station.
  - Two (2) diagnostic-grade medical monitors, each ≥24 inches, with a resolution of 2 megapixels (MP) or higher, calibrated to DICOM grayscale standards.
  - High-performance CPU unit with a minimum of 16 GB RAM, multi-core processor (Intel Core i7 / Xeon or higher)
  - Full access to post-processing tools identical to those available on the main server workstation
  - DICOM print capability to a dry film printer and color laser printer.
  - At least 1 TB RAID protected storage capacity, expandable to accommodate future imaging data growth.
  - Workstation should be quoted from same principal company.
11. **Software: DICOM 3.0 capability**
  - Cardiac CT Package
  - Post Processing Software for various applications.
  - Image Evaluation Tools
12. **Latest contrast based dual energy scanning capabilities should be offered as standard.**

**13. Low-Dose Imaging Strategies must be available.**

**14. CT Injector Dual Head:**

- Remote control unit with capability to review previous injection profiles (volume, pressure, flow)
- Touchscreen interface on both injector head (minimum 5") and remote-control unit (minimum 8")
- Remote control for safe operation from CT control room
- Maximum operating pressure: 300 psi
- Multiple injection modes with up to 6 phases.

**15. UPS for entire CT system with at least 30 minutes backup.**

**16. Accessories, Spare and Consumables:**

- CT Injector Dual Head with above specifications.
- The supplier must provide a CT quality assurance phantom suitable for routine performance testing and calibration of the CT scanner.
- All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.
- All standard maintenance tools and cleaning/ lubrication materials where applicable shall be included. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.
- Tables for keeping operator console, workstations, injector workstation and at least 6 chairs must be provided.

**17. Standard and Safety Requirements**

- The system must be ISO 13485 certified from a EU registered notified body having notified body number.
- Bidder must submit valid ISO 13485 certificate.
- The system must be certified with EU-CE & USFDA. The EU- CE certificate should be issued from an EU registered notified body having notified body number.
- Bidder must submit valid EU-CE & USFDA certificate.
- The system must conform to electrical safety standard IEC-60601-1 General Requirement.

**18. Warranty:** The supplier shall provide a comprehensive 3-year warranty covering all system components, accessories, and third-party items with full parts, labor, and on-site support. All software updates and upgrades shall be provided free of charge for the lifetime of the machine. Upon completion of the warranty, the supplier shall commit to provide an additional 7 years of Comprehensive Maintenance Contract (CMC) with the affordable price.

**19. Maintenance Service during warranty Period:** At least 4 preventive maintenance per Year and additional if demanded by Hospital.

**20. User Training:** The Supplier shall conduct user training (within/ outside the country) for this equipment to enable operators to use the equipment properly at the center with high patient load. The training shall include at least two users for about two (2) weeks and train about the

use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.

21. **Turnkey:** Complete turnkey work for the site preparation including, breaking walls, false ceiling, cable ducting, lighting, earthing, necessary radiation protection for operation of the CT scan including lead lining on the doors, painting of the rooms and all other necessary work for installation of the equipment must be done by the supplier.