



# All India Institute of Medical Sciences Jodhpur

Admn/Prop/40/2022-AIIMS.JDH

Dated: 23<sup>rd</sup> August 2022

**Subject:** Purchase of Mobile CT Scanner for the department of Neurosurgery at AIIMS, Jodhpur on proprietary basis - **Inviting comments thereon.**

The Institute is in the purchase of Mobile CT Scanner for the department of Neurosurgery at AIIMS, Jodhpur from M/s NeuroLogica Corporation, 14 Electronics Ave. Danvers, MA 01923, USA on proprietary basis. The proposal submitted by M/s Schiller India, Mumbai certification by user are attached.

The above document are being uploaded for open information to submit objection, comments, if any from any manufacturer regarding proprietary nature of the equipment within 21days of issue giving reference Admn/Prop/40/2022-AIIMS.JDH. The comments should be received by office of Deputy Director (Admin), Medical College at AIIMS, Jodhpur on or before 13<sup>th</sup> September 2022 upto 03:00 PM failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

**Yours faithfully,**

**Deputy Director (Admin)**

**Enclosed: Related documents enclosed.**



# All India Institute of Medical Sciences Jodhpur

**NeuroLogica**  
A Subsidiary of Samsung Electronics Co., Ltd

December 23, 2021

## PROPRIETARY CERTIFICATE

### TO WHOMEVER IT MAY CONCERN

This is to certify that **OmniTom Elite**, manufactured by **NEUROLOGICA CORPORATION** located at 14 Electronics Ave. Danvers, MA 01923 USA. , is a **Mobile Computed Tomography system, 16 Slice with slip ring technology** is patented and is proprietary item not manufactured by any other CT manufacturer.

#### Summary of proprietary features in OmniTom:

1. **Intuitive user interface** with rewarding touch interface & interactions, vocal feedback
2. OmniTom is the world's first medical device with an **Omni-wheel** allowing for intuitive lateral, diagonal, and 360 °movement.
3. **Contrast study**: can be performed in ICU / OR / Emergency wards.
4. **Pediatric protocol** with capability to scan fully body up to 55lbs.
5. **Internal lead shielded: 0.3 mm**

Patent Pub. No. :

- US 8,057,097 B1
- US 9,208,918 B2
- US 2018 / 0242932 A1

Sincerely,

Stephen Dunn  
mCT Product Manager  
NeuroLogica

*Mh Justice SB*  
*2021*

14 Electronics Avenue Danvers, MA 01923-1011  
Telephone: (978) 564-8500 • Facsimile: (978) 560-0602





# All India Institute of Medical Sciences Jodhpur

## Technical Specifications of Mobile CT Scanner for Neurosurgery

A compact, portable, battery and line powered multi-slice CT scanner for Cranial and Cervical applications in Neurosurgery ICU, OT, Stroke and Trauma.

### Specifications:

#### **A. X-Ray Generator and Tube**

1. Should have multi-slice capability with minimum of 16 slices.
2. The tube voltage should vary from 80-120 KV.
3. Tube cooling should be with coolant.
4. Detector coverage should be  $16 \times 0.625$  mm.
5. Should have solid-state detectors.
6. Tube current should be 5 mA-45mA max.

#### **B. Geometry**

1. Should have a minimum patient opening of 40cm.
2. Image field of view should be at least 300 mm.

#### **C. Image processing.**

1. Should have capability to perform non-contrast CT (axial), helical, dynamic and 3D CT reconstruction.
2. Should be able to perform CT angiography with bolus tracking.
3. Should allow volumetric data acquisition
4. Spatial resolution should be: Soft tissue kernel: 6.7 lp/cm and High resolution kernel : 14.8 lp/cm

#### **D. Image quality:**

1. The reconstruction matrix should be at least  $512 \times 512$ .
2. Reconstruction speed should be at least 16 images/sec.
3. System should be supplied with detector size at least 0.625 mm.
4. System should be supplied with max scan range of 400 mm.
5. Pediatric protocols must be provided by age/weight.

#### **E. Connectivity:**

1. Should have DICOM functions. The vendor has to connect the equipment with the existing PACS network of the hospital.

#### **F. Electrical supply:**

1. Should be able to run on single phase.
2. Should have an internal automatic voltage regulator to protect against voltage fluctuations and power surges.
3. Should be supplied with Indian power connecting plugs.

#### **G. Portability:**





# All India Institute of Medical Sciences Jodhpur

1. Should be compact and portable with ability to move within elevators and through normal sized doors of 2.5 feet × 5.5 feet.
2. Should have lithium battery backup for at least 2 scans.
3. Should have internal drive system with collision sensors.
4. System should allow institute lateral, diagonal and 360° movements for easy placement in OT/ICU or Emergency room.
5. Patient auto-alignment: Should be provided with camera to allow rapid positioning of scanner at head-end of the bed.

#### H. Radiation safety norms:

1. Shielding upgrade if available should be provided.
2. System should be XR-29 compliant.
3. Should satisfy international radiation safety requirements in-line with AERB, Government of India.
4. The equipment should be US FDA and European CE approved.

#### I. User Interface:

User interface should be provided with touch interactions and voice feedback.

#### J. Standard accessories should be provided as mentioned below:

1. Advance post-processing work-station.
2. Radiolucent scanning board.
3. Lead aprons and thyroid shields: 3 NOS.

#### K. Following features to be made available with the equipment with separate quotations:

1. CT Perfusion scanning facility
2. Compatible Head Clamp Set
3. Compatible pressure Injector.
4. Pediatric Scanning Table.
5. All accessories should be supplied for integrating the equipment with existing navigation system of the institute so that it can be used with navigation.

- L. An expert manpower (CT technician) to be provided for 5 years for operating CT scanner.

MG

SB

21m