REF.	
Item: Multi-Slice CT 16 slice High	
No.	**Item Specifications**
1	**Technical Specifications**
1.1	16-slice CT scanner utilizing the latest technology; coping with the high patient throughput. The system must provide high resolution images at low dose and implement the latest applications.
1.2	**Gantry:**
1.2.1	Gantry opening ≥ 70 cm and higher will be rated
1.2.2	High speed of gantry rotation for 360° rotations
1.2.3	Capability of generating ≥ 16 Slices per rotation
1.2.4	Focus to detector distance
1.3	**Patient Table:**
1.3.1	Scan range ≥ 150 cm and will be rated.
1.3.2	Patient weight ≥ 200 kg and will be rated
1.3.3	Table vertical range will be evaluated
1.3.4	Minimum table height to be evaluated
1.4	**Detector**
1.4.1	Solid state or ceramic, the same material of the high end system to optimize dose values will be highly evaluated
1.4.2	Total number of physical rows, ≥ 16
1.4.3	Total number of elements/row
1.4.5	Slice Thickness to be as minimum as possible
1.4.6	Total detector width at isocenter
1.5	**X-ray Generator:**
1.5.1	Actual generator power ≥ 40 kW and will be rated. Equivalent power must be documented
1.5.2	kV range to be mentioned and will be rated (Protocols for pediatrics will be rated)
1.5.3	Any dose saving features should be mentioned and will be rated
1.6	**X-ray Tube:**
1.6.1	Anode heat storage capacity ≥ 5 MHU, the higher the better
1.6.2	Anode heat dissipation to be mentioned and higher will be rated
1.6.3	Focal point size (small and large) to be mentioned and will be rated
1.7	**Dose Management:**
1.7.1	Dose-modulation technique
1.7.2	Pediatric-specific dose control
1.7.3	Any further features for dose saving should be mentioned and will be rated
1.8	**Spiral Acquisition:**
1.8.1	Scan time ≤ 0.8 sec and will be rated
1.8.2	Scan field of view as maximum as possible
1.8.3	Pitch factor up to 1.5 and will be rated.
1.8.4	At least 100 sec continuous spiral without cooling delay is mandatory
1.8.5	Reconstruction time per image, sec
1.8.6	Reconstruction time for localization scan, Real time
1.9	**Operator console/computer:**
1.9.1	Fast and multi-tasking with user-friendly interface, please mention CPU bits & RAM (at least 16)
1.9.2	Storage capacity of ≥ 200,000 images 512x512 resolution un-compressed.
1.9.3	19” high resolution LCD monitor
1.9.4	Reconstruction rate: 512x512 must be mentioned and will be rated.
1.9.5	Iterative reconstruction for dose reduction without affecting the image quality
1.9.6	Direct generation of sagittal, coronal, oblique or double oblique reconstructed images directly from CT raw data as part of the CT protocol will be rated.

No.	Item Specifications
1.10	**CT applications:**
1.10.1	Bolus tracking
1.10.2	3D reconstruction (VRT) with automatic bone removal.
1.10.3	3D package (surface & volume) MPR,MIP
1.10.4	Real-time dose modulation based on one topogram
1.10.5	Automatic organ based setting of scan parameters and recon ranges for faster and standardized workflow.
1.10.6	Virtual endoscopy
1.10.7	Advanced vessel analysis
1.10.8	Metal Artifact reduction, please specify
1.10.9	The main console must be DICOM 3.0 with the following licenses: print, storage, Q/R, Work list (life time license)
1.11	**Image Quality:**
1.11.1	High contrast resolution (line pairs/cm) @ 2% MTF and 10% MTF should be mentioned and will be rated.
1.11.2	Low contrast resolution for 20 cm CatPhan @ 5 mm or less @ 3 HU to be mentioned along with dose and will be rated.
1.12	**Upgradability**
1.12.1	The system upgradable (software) to 32 slice per rotation in both axial and spiral modes will be evaluated
1.13	**Independent Work-station**
1.13.1	Lung Analysis
1.13.2	Auto bone removal
2	**Supplied Accessories :**
2.1	Full System UPS
2.2	2 Aprons, 2 Goggle, 2 thyroid
2.3	Dry Imager
2.4	Single head injector
3	Complete indoor site preparation for examination, equipment and control rooms
4	**Power input to be 380 VAC, 50Hz**