The model offered should be High – end model under current production, should be with Slip ring Technology. The offer should meet the specifications as follows:

**X-Ray Section:**

1. The X-Ray generator should be compact and inbuilt in the Gantry.
2. The mA range available to be up to 200mA or more with increments in steps for not more than 10 mA
3. The X-ray tube should be essentially Dual focus with capacity of at least 3.5 MHU.
4. The small focal spot of the X-ray tube < 1 mm x 1 mm
5. The X-ray tube should have a cooling rate of not less than 700 Khu per MIN.
6. The X-ray tube cooler should be built in the Gantry

**Detectors**

1. The detector offered should be solid state / ceramic
2. The effective elements /channels should be at least 650 per row. It should have 2 or more slices per rotation in all slice thickness.
3. Specify the Fan angle of the X-rays and the types of geometry
4. The detectors should not require frequent calibration.

**Gantry:**

1. The gantry should be provided with user – friendly control panels for easy positioning.
2. The sub millimeter slice in Multi Slice acquisition should be available.
3. Multi slice facility of 2 or more slices should be standard for all slice thickness.
4. Aperture should be at least 65 cms diameter
5. The CT scanner should have low voltage slip rings incorporated in the Gantry
6. The scan time for a 360 Degree rotation should be less than a second
7. The gantry should have a minimum tilt of 30 degrees on either side and remote tilt should be available as standard.

**Patient Couch:**

1. The range of metal free scan should be at least 130 cms
2. The vertical range should be at least 5 cms (maximum height – minimum height)
3. Specify the reproducing accuracy of the table
4. Remote UP/DOWN, FWS, BWD should be standard
5. The patient table offered should have a minimum load bearing capacity of at least 200 kg

**Spiral Section:**

1. The system offered should have spiral capability of at least 100 seconds at 150 mA and above
2. The range of spiral facilities in Axial direction should be more than 100 cms
3. The reconstruction time in spiral scan should not be more than 1.0 seconds.
4. Bolus chase facility should be standard

**Computer Section**

1. The computer offered should be the latest Multi tasking with 64 Bit processor and a menu driven platform
2. The monitor should be the latest colour of at least 19 inches and full flat screen.
3. The display matrix should be at least 1024 x 1024.
4. The Hard Disk capacity for both image and raw data should be 240 GB or more.
5. It should have facility to store at least 10,000 images.
6. The system should be supported with archiving facility. CD and DVD archiving facility are required.
7. DICOM facility to send, store, print, receive etc should be standard.
8. Fully DICOM 3.0 (or newer version if available at time of delivery).

**Image Processing Section**

1. The following software should be offered as standard (MRP, ROI, VOLUME CALCULATION, CT NUMBER DISPLAY, WINDOW WIDTH, WINDOW LEVEL, TOPOGRAM DISPLAY, CINE DISPLAY and HRCT LUNG).
2. The system should have software like 3D volume rendering, MIP, CT Angiography, HRCT, should be available on the main console.
3. Fully functional additional workstation with 21 inches monitor

**Resolution:**

1. The system should have a resolution of at least 15 LP/cm at standard parameters and using CAT Phantom.
2. Specify the CT Dose Index
3. Hard Copy:
4. A dry view Laser Camera with Digital Interface and control integrated with main console. Dicom 3 (or newer version if available) compatible
5. Camera should print on 14” x 17” film size
6. Camera having dpi resolution of 500 dpi or more

**Accessories**

1. Lead glass of at least 2 ft by 4 ft
2. Stabilizer for the entire system of suitable capacity
3. 10 KVA UPS with half an hour backup
4. Single head pressure injector of reputed make with 50 nos. of 50 ml syringe and tubing
5. Warranty should be inclusive of all spares including X-ray tube. The CMC rates offered should also include all spares including X-ray tube.
6. 4 operator chairs and 2 tables
7. Three lead Aprons
8. One P-IV (or equivalent) or latest PC with laser printer
9. One slave monitor
10. View boxes – LED type – 5 sets

**SCOPE FOR TURNKEY WORK**

1. Minor civil works to remodel the existing room.
2. Fixing of the lead glass on the wall.
3. Tile flooring on the gantry and console room.
4. Interior finishing works with fall ceiling.
5. Supply and Installation of the Air Conditioning units of suitable tonnage on the gantry and console room.
6. Necessary Cabling work.
7. Lead lining on the doors and frames.

**OTHERS**

1. The cost of turnkey work should be specified separately as optional. The rates offered will not be considered for price bid evaluation
2. The offer should be accompanied by original product data sheet /brochure of the product and AERB type approved models only be quoted.