



Dr. B. Borooah Cancer Institute

(Regional Institute for Cancer Treatment & Research)

Guwahati-781016

No. BBCI / Misc-27/ RPP-IV/ NIT / 3346 / 2012

Date : 28.02.2012

NOTICE INVITING TENDERS

Dr. B. Borooah Cancer Institute, Gopinath Nagar, Guwahati-16, invites sealed tender affixing court fee stamp worth Rs.8.25/- (Rupees eight and paise twenty five only) for supply, transport to site, installation and commissioning of **CT Simulator Machine** from reputed and financially sound supplier / manufacturer/ dealer / firm/ company etc. as per terms and conditions as indicated below:-

Important Dates

Last date & time of submission of sealed tenders : 23.03.2012 (Friday) upto 2:00 PM
Opening of sealed tenders : 23.03.2012 (Friday) at 3:00 PM
Date of Technical Assessment Committee meeting : 06.04.2012 (Friday) at 11:00 AM

- [1] The tender shall consist of 3 parts, namely **Part-I, Part-II and Part-III**, in separate sealed cover. **Part-I** of the tender shall be the Earnest Money Deposit (EMD); **Part-II** shall cover **technical**; and **Part-III** the **commercial** aspects of the bid. **Part-I, Part-II and Part-III** offers shall be submitted in one sealed cover and this will be received upto **2:00 PM of 23.03.2012 (Friday)** and will be opened on the same day at **3:00 PM**. **The court fee stamp of Rs.8.25/- should be affixed in the Part-II (Technical Bid) of the tender.**

The tender will not be accepted after due date and time.

The tenderer or his representative may remain present at the time of opening provided they bring with them letters of authority from the corresponding tenderers.

In case the specified date of tender opening falls on / is subsequently declared a holiday or closed day for the purchaser, the tenders will be opened at the appointed time and place on the next working day.

- [2] Complete information should be given indicating among other things, facilities required for installation such as electric power supply, ventilation, ducting, minimum area required for housing the unit along with its control panel and optimum climatic condition for operating the system etc. Taking safety features into consideration they should also propose the detailed layout of the equipment.
- [3] The rate should be quoted as per the technical specifications to be offered by the vendor against the equipments to be quoted to perform the experiments enclosed herewith as **Schedule-‘A’**. The model, make & year of introduction with technical specifications may also be indicated. The tenderer if so desired may quote for more than one model / make.

The details of the price of the equipment should be quoted in Part-III of the tender in the following manner:-

- (a) Basic price with 5 (five) years comprehensive warranty,
- (b) Other charges such as freight, insurance, installation, charges on road permit, transportation upto site of installation, bank charges and any other charges whatsoever it may be;
- (c) Excise Duty, Customs Duty/ Octroi (*if applicable*)(*should be shown separately*)
- (d) Road permit tax or any other entry tax (*if applicable*) (-do-)
- (e) State / Central Sales Tax / or VAT (*as may be applicable*) (-do-)
- (f) Comprehensive & non-comprehensive AMC charges for the period from 6th to 10th year (i.e. beyond warranty period). All the items including consumables for functioning the equipment needs to be included in the CMC and no exclusion criteria will be accepted. The batteries of the Ups will be included in the CMC charges.

Note :

- If any tenderer quotes their commercial offer in any foreign currency other than Indian Rupee, the same will be converted into Indian Rupees for comparison taking the prevailing exchange rate on the date of opening of commercial offer.
- No payments towards customs duty will be done for parts shipped in warranty and CMC period.

- [4] Customs Duty Exemption Certificate on payment of customs duty, as may be admissible, will be provided in case of necessity.
- [5] **Earnest Money Deposit of Rs.50,000/- (Rupees fifty thousand only)** must be submitted in form of Bank Draft (Nationalized Bank) in favour of “**Dr. B. Borooah Cancer Institute, Guwahati-16**” as ‘**Part-I**’ of the tender.
- [6] The Earnest Money Deposit will be returned to the tenderer by A/c payee cheque if the tender is not accepted. In case the tender is accepted, EMD will be retained till the execution of the contract. No interest will be paid on EMD by this Institute.
- [7] Up-to-date valid Sales Tax Clearance certificate etc. from the appropriate authority should accompany the tender.
- [8] Successful tenderer will have to enter into a contract for supply, transportation, installation & commissioning of the equipment to the hospital as per the direction of the Institute in the prescribed format attached to this tender document ‘**Schedule-B**’.
- [9] Bank guarantee being 10% of the total value of work towards satisfactory performance and services during the warranty period of the items will have to be submitted by the successful tenderer in the prescribed format ‘**Schedule-C**’ within 30 (thirty) days from the date of issue of notification of award by the purchaser after signing of the contract by all the parties to the agreement. The bank guarantee shall remain valid 60 days beyond the warranty period of the equipment.

In the case of Bank Guarantee furnished from banks outside India (i.e. Foreign Banks), it should be authenticated and countersigned by any nationalized bank in India by way of back-to-back counter guarantee.

The successful tenderer shall also submit performance bank guarantee @ 2.5% of the equipment value (as per contract) during the post-warranty Comprehensive Annual Maintenance Contract in the prescribed format ‘**Schedule-D**’.

[10] **Payment terms will be as follows:**

- (a) Payment for Indian origin items or foreign origin located within India will be made only on receipt of final Job Completion Report of the supply, installation & commissioning of the equipment from the Inspection Committee to be constituted by the Purchaser. In this connection, the supplier will submit bill for payment after satisfactory supply, installation & commissioning of the equipment.

- (b) Payment for imported items will be made through Letter of Credit. 80% of the total LC amount will be released to the Supplier against delivery of the equipment and balance 20% will be released on receipt of final Job Completion Report from the Inspection Committee to be constituted by the Purchaser after satisfactory installation and commissioning of the equipment.
- (c) Payment of Indian Agency commission, if any, will be made to the manufacturer's agent in the local currency for an amount in Indian rupees indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of opening of commercial bid) and shall not be subject to further escalation / exchange variation. Payment shall be paid in Indian Rupees to the Indian Agent on proof of 100% payment to the Foreign Principal.

- [11] **The warranty** of the equipment / machinery including local items (and battery replacements for UPS) should be for a **minimum period of five (5) years** from the date of installation / commissioning. During the period of warranty of the equipment/ instrument with accessories to be supplied, the tenderer shall provide free maintenance services and replacement if required free of cost. Any new application software up-gradation will be provided free of cost and without any extra charges during the warranty period.

The **details of year-wise Annual Maintenance Contract (both comprehensive and non-comprehensive) upto 10th year (i.e. 6nd – 10th year)** beyond expiry of the five year warranty period of the equipment / instrument should be quoted separately. All the items including consumables for functioning the equipment needs to be included in the CMC and no exclusion criteria will be accepted. The batteries of the Ups will be included in the CMC charges.

All software updates should be provided free of cost during CMC period. The proforma for Annual Comprehensive Maintenance Contract will be as per 'Schedule-E'.

The successful tenderer must support 15 years life span of the supplied machine along with software, spare parts and supplied accessories.

- [12] Various upgradation modules available and price must be quoted separately.
- [13] Good after sales service facilities should be available for maintenance/repair of the equipment.
- [14] The tender document may be obtained during the office hours from the office of the undersigned on payment of **Rs.2,000/-** (Rupees two thousand only) (non-refundable) **either in cash or by A/c payee Demand Draft or banker's cheque** drawn in favour of '**Dr. B. Borooah Cancer Institute, Guwahati-16**'. **Photocopy of the document in support of the payment of the tender fee is to be submitted alongwith the Part-I of the tender invariably.**

The detail tender documents can also be downloaded from our website **www.bbcionline.org** (*see bulletin → tender..*). The tender document downloaded from the website will be accepted only on furnishing of non-refundable tender fee in the form of crossed Demand Draft / Banker's Cheque of **Rs.2,000/-** (Rupees two thousand only) separately drawn on any nationalized bank in favour of '**Dr. B. Borooah Cancer Institute, Guwahati.**' In this case, the tender fee shall be submitted along with the EMD in the Part-I of the tender. However, the tender cost should not be mingled with EMD. If the tender document is downloaded from our website, while furnishing the tender, it should be superscribed legibly on the left corner of the sealed cover as "**TENDER COPY IS DOWNLOADED FROM BBCI WEBSITE**".

- [15] All pages of the Tender should be page numbered and indexed.
- [16] The tender is to be duly signed on all the pages as a token of having accepted all the terms and conditions (no thumb impression is to be affixed).

[17] The tender documents are non-transferable.

[18] Process of opening / screening / selection of tender:

(a) In the first instance, the **Part-I** of the tender i.e. EMD (Earnest Money Deposit) will be opened by the Tender Opening Committee. **The offers without EMD (part-I) of the tender will not be considered for further process of evaluation.**

(b) Thereafter, the valid **Technical Bids (Part-II)** of the tenderer will be opened. The valid technical offers will be evaluated by a **Technical Assessment Committee** of the Institute on **06.04.2012 (Friday) at 11:00 AM in the Committee Room (1st Floor, Administrative Block, Dr B Borooah Cancer Institute, Guwahati).**

Representative/s of the valid tenderers should be present during the course of technical assessment by the Technical Assessment Committee on 06.04.2012 (Friday) for technical clarification, if any. The TAC will recommend the technically short-listed vendors for further consideration.

(c) The commercial offers of the technically shortlisted vendors/equipments will only be considered for price comparison / ranking purpose.

(d) **The date and time of opening of the commercial bids of the technically short-listed tenders will be intimated.** Representatives of respective vendors / companies may remain present at the time of opening of the commercial bid, when intimated.

[19] The equipment to be supplied should be of best quality of reputed manufacturer, i.e. to provide all latest and state of the art Equipment.

[20] The tenderer should submit their **credentials along with Part-II (Technical Bid)** of the tender consisting of the following:-

- i. Court fee stamp of Rs.8.25p (to be affixed)
- ii. Particulars of the participating firm / vendor / company (tenderer) in the prescribed format '**Schedule-F**'.
- iii. Certificate of previous experience of similar job with list of institution / Govt. Department / Agency where supplied.
- iv. Certificate of dealership etc. from the appropriate manufacturer in case the tenderer is a dealer.
- v. Certificate in regard to license of manufacturing in case of manufacturer.
- vi. Certificate in regard to registration of firms along with trade license.
- vii. Certificate of quality control if any in respect of equipment to be supplied.
- viii. An affidavit duly attested by the Notary Public (in original) on a non-judicial stamp paper of Rs.10/- that the tenderer (company / firm) is not supplying the same item at lower rates quoted in this tender to any government / private organization or any other institution during past one year.
- ix. An affidavit duly attested by the Notary Public (in original) on a non-judicial stamp paper of Rs.10/- that there is no vigilance / CBI case pending against the firm / supplier.
- x. Performance Statement (for last 3 years) as per **Schedule-G** along with relevant copies of orders and end users' satisfaction certificate.
- xi. Detail technical specifications of the instruments / equipments with make and model to perform the experiments.
- xii. Photocopy of the document in support of payment of the tender fee.

The brochure / leaflets / catalogue in respect of the equipment as and where applicable may also be enclosed.

- [21] The tenderers quoting as authorized representative of the manufacturer shall have three years of experience in the related field and should obtain documents from principals / manufacturer fulfilling the requirements in taking full responsibility of technical support, service and organizational support in the prescribed format '**Schedule-H**'.
- [22] The sealed tender is to be dropped in the tender box as will be kept in the office of the undersigned within the period and time as mentioned above. However, outstation tenderer may submit tender/s by speed post/courier service/registered post to be received by the undersigned on or before the date of closing time of tender. The undersigned will not be responsible for any postal delay in receipt of the tender in due date and time. The tender if sent by post or by courier, but not received by the undersigned within the stipulated date and time will not be accepted.
- [23] The rate if accepted will remain valid for 1(one) year from the date of acceptance and there will no change under any circumstances during the period.
- [24] The rate should be quoted both in figure and in words.
- [25] The successful tenderer shall have to supply the intended equipment to this Institute at his own risk and responsibility and in good condition in all respects.
- [26] Incomplete tender not in conformity with the terms and conditions as in this tender notice will be rejected outright.
- [27] The undersigned reserves the right either to accept or to reject any or all the tenders without assigning any reason thereof and is not bound to accept the lowest tender.
- [28] Decision of the Technical Assessment Committee / Purchase Committee / Finance Committee or the Management Council of the Institute shall be final and binding in all cases.



Director

Dr B Borooah Cancer Institute
Guwahati-781016

SCHEDULE – ‘A’

Technical specifications

of

CT SIMULATOR MACHINE WITH ACCESSORIES

Technical specifications of CT Simulator Machine

Dedicated CT Simulator is required for Radiotherapy Department for advanced Simulation for planning, conventional, 3-D CRT, IMRT, IGRT Planning. The CT-Simulator is required for most accurate simulation, placement of treatment fields and marking of radiation field portals on the patient's skin for radiation therapy of cancer patients. The CT scanner should have carbon fiber tabletop with indexing facilities (for all kinds of immobilization system used in radiotherapy) identical to that of linear accelerators in the department. The CT- simulator should have at least three computer controlled moving lasers for marking the field reference points, consists of a single overhead moving laser to project the sagittal plane, two moving lasers to project coronal plane and two moving lasers to project the axial plane. This should eliminate the need for manual couch movements. The CT scanner should be a spiral, multi-slice should ensure easy, error free and total compatibility between the scanner and simulation work station. If third party software is supplied, it will be sole responsibility of the vendor incorporating latest technology available in the market. The Simulation software should be user friendly and supplying the CT simulator to run the software. The system should be able to integrate the Virtual simulation Software, work station to existing and future 3DTPS and Linear accelerator of the department and this will be entirely and directly responsibility of the vendor.

The detailed specifications are as follows:

1. CT Scanner

Whole body spiral, multi-slice (minimum 16 slices per rotation or more) C.T. scanner system should have following essential features:

1A. Gantry:

- i) Gantry aperture should be at least 85 cm or more.
- ii) Gantry tilt should be at least ± 30 degree.
- iii) Scan field of view of at least 50cm or more.
- iv) Extended field of view of minimum 70 cms for radiotherapy planning should be available.
- v) The gantry must have laser positioning lights with a positioning accuracy of ± 1 mm or better.

1B. Patient Couch:

- i) The scanning couch top must be carbon fibre flat table top with minimum dimensions of 235cmX40cm, having horizontal moving range of 170 cm or more and should be compatible with the tables of the linear accelerators installed in the department. The table should have patient positioning index system on carbon fiber table top.
- ii) The speed of horizontal movement must be variable with a maximum speed of at least 10 mm per second.

- iii) The accuracy (reproducibility) of the table top must be better than ± 0.25 mm.
- iv) The scannable horizontal range should be at least 150 cm or more.
- v) The couch must meet the following vertical movement ranges:
55 to 95 cm when outside the gantry; within the gantry it must have a moving range of 20 cm; the minimum height outside the gantry must be $52 \text{ cm} \pm 1 \text{ cm}$.
- vi) The table should be able to bear weight up to 180 kg or more without any change in stated performance specification.
- vii) It should be possible to move the table top from the table side and the control console and hand pendant.

1C. CONTROL CONSOLE :

- i) It should have 19'' or more (flat panel) colour monitor for display of 1024 X 1024 matrix or more.
- ii) All functions viz scanning, image reconstruction, film documentation, MPR, CT maximum intensity projection, 3D with SSD, virtual simulation etc should be possible from main console and workstation.
- iii) DVD/CD/ or better archiving facility must be available.
- iv) The image reconstruction time should be less than 1.5 second for any mode.

1D. X-ray System

- i) High frequency X-ray generator with power rating of at least 50 kW or more.
- ii) This should be in the range of 90 kV to 140 kV or better.
- iii) The mA range must be from 30 mA to 400 mA or better, with step size of 10mA or better.
- iv) Peak Anode heat dissipation rate of at least 800 kHU / min or better
- v) X-ray tube should have dual focal spot. Please mention the size of the focal spots.

1E. Detectors:

- i) The detector system should be a high performance, low noise, high data density, active response data acquisition system.
- ii) The detectors should be solid state.
- iii) It should be free from repeated calibrations.
- iv) There should be multiple rows of 650 or more detectors for taking a minimum of sixteen slices at a time.

1F. CT Scanning Parameters:

- i) The slice thickness should be user selectable starting from 1mm or less.
- ii) Scan time for full 360 degree rotation should be 0.5 sec. or less.
- iii) Scan field view should be 50 cm or more
- iv) Intra-Plan Delay of 5 sec. or less should be possible
- v) Retrospective reconstruction should be possible on raw data files with change in parameter such as FOV.
- vi) The following scanning mode should be possible Scanogram : Axial and Spiral. It should be possible to mix spiral and axial mode.

- vii) Starting with a cold tube, the maximum helical scan distance using a 1mm imaged slice thickness and a pitch of 1.5 should be 1500 mm or more.
- viii) The scanogram length should be more than 1500 mm long and the width must be at least 500 mm.
- ix) It must be possible to obtain the scanogram from AP or PA or left to right or right to left directions
- x) The accuracy of slice prescription from the scanogram should be ± 0.5 mm or better
- xi) The accuracy of distance measurements in the scanogram (taken at isocenter distance) must be better than ± 0.5 mm or better than twice the pixel dimension
Reference scan should be possible on an arbitrary slice with the proposed treatment volume.
- xii) High contrast spatial resolution: It should be at least 15 lp/cm maximum at 0% MTF.
- xiii) Low contrast detectability: 5mm or less @ 0.3% using 20cm CATPHAN on 10 mm slice thickness.
- xiv) The CT number accuracy must be better than ± 4 HU for water and ± 10 HU for air. Necessary phantoms to check the spatial resolution of the scanner should be provided. A special phantom to check the electron density - HU relationship for the different body tissues must be provided.

1G. Image Quality:

- i) The reconstruction matrix must be 512 x 512 or higher. The reconstruction time should be as less as possible. Simultaneous scanning and reconstruction should be possible. It should be possible to do:
 1. Simultaneous scanning & routine analysis.
 2. Simultaneous scanning & archiving and / or hard copying and
 3. Simultaneous scanning and transfer to second console / workstation.
- ii) The system must have automatic mA control software that automatically adjusts mA for patient size, adjust mA along the z-axis, modulates mA during rotation.

1H. Spiral Parameter.

- i) Different selection of pitch should be possible, from 0.5 to 3 in 0.1 increments. Please mention the pitch available. Mention the single run coverage and the table scannable range. Inter Scan Delay in different group of spiral should not be more than 5 sec.
- ii) Intra-plan delay of 5 sec or more should be possible
- iii) Retrospective reconstruction should be possible on raw data files with change in parameters such as FOV
- iv) The following scanning modes should be possible: Scanogram, Axial, Spiral, Cine and biopsy mode
- v) Pilot scan: The pilot scan field size should be more than 1500 mm long. The reconstruction time for pilot scan should be 3 secs for a 512 matrix and 5 secs for a matrix of larger size
- vi) Reference scan should be possible on an arbitrary slice within the proposed treatment volume
- vii) Specify the table speed to the scan in terms of Z-axis coverage.

2A. COMPUTER SYSTEM OF CT SCANNER :

- i) State-of-the-Art, high end main computer system, must be provided. The system must have two processors (parallel), RAM size must be at least 4 GB or better.
- ii) There must be two monitors in the console and they must be 19" LED monitors. One of these will be used for acquisition and the other will be used for review and processing.
- iii) The hard disk capacity of the main computer system must be at least 275 GB or more. In the hard disk meant for image storage, the number of uncompressed 512 x 512 images that can be stored should be at least 250,000 or more. The maximum possible hard disk capacity must be provided. For archiving, DVD writer should be provided for providing copies of individual studies. The archiving system should provide back up for imaging needs of an average radiology facility for 2 years. All necessary hard ware and consumables (DVD / DAT cartridges) to be specified and provided. Printer with color laser connected with UPS to be provided.
- iv) The CT-Simulator system should be fully DICOM complaint. The DICOM should support the following:
 - Dicom 3.0 Print service class as a user.
 - Dicom 3.0 Storage class as a user.
 - Dicom 3.0 Storage class as a provider.
 - Dicom 3.0 Send / Receive
 - Dicom 3.0 Query / Retrieve service class as a user.
 - Dicom 3.0 Query / Retrieve service class as a provider.
 - Dicom compliance statement should be provided.

A bi-directional speaker communication must be provided between the operator and the patient.

2B. Computer System for Moving Laser System:

The laser system provided must be 4 moving lasers for marking the isocenter without moving the table top. Following the isocenter localization in the CT simulator workstation, the isocenter coordinate will be sent directly to the computer system that is controlling the movements of the lasers. This computer in turn should drive all the lasers, so that without moving the table top, the lasers point to the isocenter. Complete quality assurance tool (as stated above) must be provided. The control computer system must be Windows XP based system with Pentium 4 processor or higher.

2C. Connectivity

- i) The entire CT Simulation system must be interconnected (all the workstations, laser systems, printers etc.) and must be integrated into the department's any treatment planning systems for smooth transferring of images and DICOM-RT structures including the system to be purchased soon in this year. The system should be networked with all radiotherapy treatment planning system in the department and necessary software support shall be provided for all existing external beam radiotherapy and Brachytherapy planning.
- ii) Complete import export options and archival facility with third party systems shall be provided.
- iii) Software's required: Perfusion CT, Lung CT, Bone CT, Virtual endoscopy and CT angiography.

3. Essential accessories to be included with the unit :

Sets of patient positioning accessories namely head holder, positioning kit, mattresses (for diagnostic procedures) must be provided.

3A. UPS: On line UPS with MF batteries with rack for the backup of the entire system (i.e. for the complete system including Gantry, computer system, anesthesia delivery system, monitor and defibrillators) for at least thirty minutes. Broadband connectivity in console, power panel in the electrical room including power cable approx. 100 RM (as per requirement) from the Transformer to the electrical room of the equipment.

3B. LASER Camera: Dry laser camera to be provided

3C. Lead Glass: 100 cm X 150 cm or more with lead equivalent to meet the AERB's radiation safety requirements.

3D. Pressure Injector: CT compatible pressure injector with remote console 100 disposable syringes.

3E. Dose computation & display: The system should display CTDLw (CTDI1 00), DLP

3F. Quality assurance accessories and phantom: All QA tools (CATPHAN, Laser Alignment, Diagnostic QA tools etc) of international standard must be provided.

3G. 4D Gated Phantom shall be provided.

3H. Remote diagnostic monitoring: Remote diagnostics tool and software should be included along with internet connection for on-line remote diagnosis. All such running costs will be at supplier's account for the duration of warranty and CMC.

3 I. Reputed brand supporting furniture, air conditioners for the machine room, control console and for the additional workstations must be provided along with the unit.

CT SIMULATION WORK STATION:

GENERAL:

The workstation should have advanced CT simulation tools for radiation therapy treatment planning with dose calculation engine including workstation that can control the laser marking system. Any CT-simulation workstation that cannot control the laser marking system is not acceptable and liable to be rejected. The vendor should give a completed description about the laser marking system offered and how the CT-Simulation software integrates with it and TPS. All necessary calibration / quality assurance phantom / check device should also be provided, please specify. The workstation should be able to provide complete volume definition and geometric beam placement for radiotherapy. It should have complete compatibility and error-free networking with the CT scanner computer and TPS. The CT Simulator technology should backup the existing Brachytherapy system in the institute pertaining TPS and IMRT Interstitial applications. The CT-Simulation should generate digitally reconstructed radiographs (DRRs) in a true volumetric environment. It should be possible to overlay the beams on any DRRs or on any slice (obtained and reconstructed). It should be possible to load over 250 CT images per patient for reconstruction and simulation.

HARDWARE:

- a. Hardware specification should be mentioned clearly the system should be running on a high-end workstation platform of reputed brand like "Sun micro system / H.P. Workstation/Del/Silicon Graphics with at least 4 GB RAM or more. Minimum 128 bits processor with minimum of 275GB hard disk or more.
- b. Networking with TPS – All the software with licenses required should be included.
- c. Laser Printer should be provided.
- d. It should be possible to take printouts on this printer from any of the CT Simulation workstation.

Software:

- i) Complete software doing all the functions of CT simulator as per requirement and should have following features :
- ii) Software should be Unix / Window / Silicon graphics based system.
- iii) The software should have a volume accelerator for high speed 3D rendering at full spatial resolution.
- iv) On the monitor screen it should be possible to view at least 36 images or more.
- v) The standard screen layout should consist of one main view port and three Sub-view ports for frequent usage of other images, quick manipulation of Images, or for displaying reference views, while the main view port is used for high resolution display.
- vi) Image manipulation such as changing window width and window level, hot keys activated automated study archive, deletion, screen layout changes, disk space display, archiving, and graphic overlays such as annotation.
- vii) It should be possible to simulate all kinds of teletherapy machines in the simulation workstations. It should conform to IEC and other international standard norms and support cobalt therapy, linear accelerator of all types, and other user defined linear accelerator and compatible with multileaf collimator of all the vendors.
- viii) It should be possible to visualize interactive reference views in axial, coronal, sagittal, isocenter image planes and in any oblique directions with overlay of beams on DRRs.
- ix) DRR must provide fully divergent beam's eye view of 512x512 matrix.
- x) The DRR/BEV and Room Eye View image should display the machine diagram to allow real-time checking of machine and patient geometry.
- xi) Facility for multi modality fusion to accept the data from other DICOM compatible and DICOM supporting modalities such as MRI/CT/SPECT/PET should be able to fuse them.

Respiratory Gating software:

The machine should have both prospective and retrospective respiratory gating module.

CONTOURING:

- i) Volume definition should be possible using volume segmentation using threshold. Free hand contour tracing, contour editing. 3D anisotropic margins etc and any other advanced tools.
- ii) System must be able to contour in axial, sagittal, coronal and oblique projections.
- iii) It should be possible to do manual, semi-automated, fully automated contouring/segmentation in the images by defining volume of interest.
- iv) Mention the time taken for automated contouring with a single mouse operation for 50 slices.

- v) The software should have facility for automated uniform or non-uniform margins. For example it should be possible to expand the clinical target volume (CTV) on all three dimensions by same magnitude or by different magnitude to define the planning target volume. (PTV). Any software without this automated uniform/non-uniform feature will be considered as inadequate.
- vi) It should be possible to copy one organ to another with margin, and margins on a single slice, a range of slices or all slices.
- vii) It should also be possible to interactively edit the contours with user's choice of segments to reject or accept.
- viii) Interpolate algorithm should be available to provide interactive, shape based interpolation after contouring only in selected slices. The algorithm should automatically interpolate the closely fitting contour in other slices.
- ix) Interpolated contour may be edited; accepted or rejected.
- x) Tracking of source to skin distance should be possible.
- xi) Contouring and editing and extraction of wall should be possible.

ISOCENTER MANAGEMENT:

- i) The software should support separate isocenters for multiple target volumes or general regions.
- ii) Marked and final isocenters should be reported and displayed in the localization package for easy confirmation of a physical simulation session.
- iii) Hardcopy of the isocenter coordinates should be possible for record of the simulation session.
- iv) Isocenter positioning should be automatic.
- v) No limit on number of isocenters per target

3-D VIEW AND VOLUME RENDERING CAPABILITIES:

- a) Post processing features like volume rendering, real-time multi-axial volume reconstruction, 3-D surface rendering. Colourwash 3D should be available.
- b) It should allow completed 3D volume to be defined including complex 3D volumes, user selectable multi-image views, beams eye view, room eye and DRR.
- c) DICOM Radiotherapy plans and data structure with import/export of data should be possible. The DICOM compliance statement should be provided.
- d) Accuracy of locating any point in 3-D should be 0.1 mm or less.

BEAM PLACEMENT & DEFINITION:

- A. It should support extensive beam shapers (shielding blocks etc) and beam definition methods.
- B. Manual or automatic beam placement tool.
- C. Tools for real time checking of machine geometry.
- D. Beam shaping should be possible in multiple ways like automatic shielding block, definition conforming to selected volume, definitions aperture or shielding manual free hand definition, automatic collimator jaw or multileaf position definition.
- E. It should be possible to define this asymmetric collimator feature, where both the X- and Y-axis of jaws are asymmetric, in the CT simulation software. Similarly the software should allow multi-leaf-collimator placement up to 40 pairs or more. Any software that cannot handle 40 pairs of MLC leaves is not acceptable.

DRR FEATURES:-

- A. Interactive DRR calculation mode must be available.
- B. Automatic window width/level selection for DRR.
- C. DRR should be interactively updated when the isocenter position is modified.
- D. Should be possible to highlight or suppress different density region in the DRR.
- E. Printing of DRR images should be possible. DRR should be user defined.
- F. Macro function to save a series of frequently used steps should be available.
- G. Specify DRR image enhancement tools to improve DRR image quality.
- H. Reconstruction of DRRs should be real-time or in sub-seconds.
- I. Direct printing of DRR on laser film should be possible.
- J. Real time display of DRR as beam parameters changes.

DEPTH CONTROL:

- A. System should support depth control mode creating a DRR from slab of 3-D mode, perpendicular to beam axis.
- B. DRR must be calculated over a user-defined thickness.
- C. Depth control in oblique projections must be possible.
- D. Should be possible to merge two DRR image on the same beam.
- E. Cross-hair display on DRR to provide scale information.

DATA IMPORT / EXPORT:

- A. System should be able to export image, volume and plan data in DICOM 3.0 standard along with all Radiotherapy specific data and private objects, DICOM RT plans and data sets.
- B. System should be able to export DICOM RT data to the linear accelerator of any vendor.
- C. CT simulator system should be fully integrated with the existing TPS. The vendor should inspect and will be responsible for complete integration.
- D. All import and export licenses should be provided.

MEASUREMENT PACKAGE:

- A. The software should provide the density value (in Hounsfield unit) of a particular point on an image. It should compute distance along straight lines and curved lines, angles between the lines, and radius of curvature for curves.
- B. For a specified region of interest, ROI, the area, minimum and maximum voxel values, mean and standard distribution and a density histogram should be available.
- C. The software should be able to calculate the volume of a displayed 3-D object.

Additional Workstations: Two additional workstations for contouring and plan evaluation shall be provided by supplier.

Warranty:

The supplier shall give a comprehensive warranty for five years after installation and handing over on the entire CT System including tube from principals. There will be no parts / services excluded. Comprehensive maintenance contract for next five years (6th year to 10th year) after expiry of warranty should be quoted separately. All parts and accessories like UPS batteries are included during the warranty and CMC period. The vendor is responsible for import of spare parts, custom clearance including taxes and transportation to the hospital during the warranty and CMC period without any additional payments by Institute.

Training:

- 1) The vendor should provide comprehensive training by application specialist for the CT Simulator at the site on installation and to the full satisfaction of the Department of Radiotherapy. The training period should be at least for four weeks or more.
- 2) Training in a well-advanced centre for two Radiation Oncologists, Two Medical Physicists and two radiotherapy technicians for two weeks.

Power Supply:

Should work on three phase 400-440 V / 50 Hz Power.

Online UPS of suitable rating should be supplied for the complete system including Gantry, computer system, anesthesia delivery system, monitor and defibrillators with at least 30 minutes back up

Reset-table over-current breaker shall be fitted for protection

General Conditions:

1. The supplier shall quote for the most recent model of their machine.
2. Number of installations in India and worldwide should be provided for the quoted model only. Such installations should have been supplied directly by the quoting firm itself.
3. Declare separately the FOB and CIF prices.
4. List of factory-trained engineers (CT scanner) in India should be provided.
5. No payments towards customs duty will be done for parts shipped in warranty and CMC period.
6. Up time guarantee of 95% or more should be provided during warranty and CMC period.
7. Warranty: The supplier shall give a comprehensive warranty for five years after installation and handing over of the system including local items (and battery replacements).
8. The company must support 15 years life span of the supplied machine along with software, spare parts and supplied accessories.
9. The supplier should provide comprehensive maintenance contract inclusive of customs and all taxes for the next five years (i.e. years 6 to 10 inclusive). All the items including consumable for functioning the equipment needs to be included in the CMC and no exclusion criteria will be accepted. The batteries of the UPS will be included in the above CMC quote.
10. The lowest bidder (L1) will be identified by adding up prices quoted the main equipment in CIF and CMC for the next five years and local items quoted in Indian rupees. One time payment of customs duty during import of main equipment will be done by the Institute. Initial customs payment, transportation charges, incidental taxes up to site to be done by the vendor and claimed from Institute to avoid demurrage charges.
11. Compliance statements and pricing must be in the same order and numbering as stated in this document. Also provide a copy of the invoice (scope of supply) without the prices in the technical bid for comparison.
12. The comparison for prices will be done by converting the foreign currency exchange rates obtained from the State Bank of India on the date of opening of the price bid.
13. The machine shall be AERB type approved.
14. Time taken for the delivery of the equipment and installation and commissioning should be mentioned.
15. Uptime Warranty: 95% uptime warranty should be provided. In case the equipment is down beyond the 95% uptime, penalty of Rs.15000/- per working day will be levied/ subtracted from the CMC payment.
16. Installation and Commissioning should be undertaken within three months of the arrival of the equipment or handling over the site for installation.
17. All connectivity cables and inter-phase should be provided.

Any other matter which is necessary for proper treatment planning of the patients but has been overlooked here should also be complied with.

SCHEDULE – ‘B’

FORMAT OF CONTRACT AGREEMENT TO BE SIGNED BETWEEN DR B BOROOAH CANCER INSTITUTE AND THE SELECTED VENDOR FOR SUPPLY, INSTALLATION AND COMMISSIONING OF EQUIPMENTS

A G R E E M E N T

This agreement made on the ...(DATE)..... day of(MONTH).....Two Thousand ...(YEAR)..... between the **Director, Dr. B. Borooah Cancer Institute, Gopinath Nagar, Guwahati-781016** (hereinafter called the BBCI include the successor in office and assigned) of **THE FIRST PART** and M/s(**complete address of the supplier**) (hereinafter called the(**vendor name**))..... include the successors in office and assigned) of the **SECOND PART**;

2. Whereas M/s(**vendor**)..... submitted a tender No.
dtd..... for supply of(**selected item name with make & model**)..... in pursuance of the tender notice issued by the First Party vide No.....(**purchaser’s tender notice no. & date**).....
3. Whereas M/s(**vendor**)..... is selected by the BBCI Authority for supply & installation of the said equipment as mentioned in clause No.2 as per technical specifications incorporated to this Agreement as **Annexure-2.**
4. Whereas M/s(**vendor**)..... has been authorized to represent M/s(**name of principal in case selected vendor is a authorized dealer / agency**)..... vide letter No..... dt..... attached in the technical part of their tender [**Annexure-3**] is the part of this Agreement.
5. Whereas M/s(**vendor**)..... on behalf of its principal M/s (**Principal**)..... has agreed to honour all the conditions stated in the tender referred under clause (2) above and also the terms & conditions as laid down in **Annex-1 (Terms & conditions)**.
6. And whereas, M/s(**principal**)..... has relinquished its claim on the tender conditions under Clause (2) above by authorizing M/s(**selected vendor**).....
7. Now, the agreement witnesses the following:-

(A) **SUPPLY, TRANSPORT :**

M/s(**vendor**)..... will supply(**name of selected equipment with make & model**)..... within **weeks / months (as per conditions quoted by tenderer)** from the date of receipt of the formal supply order with the product configuration as mentioned at **Annexure – 2** and will abide by all the terms and conditions as laid down here-in-under and in the Notice Inviting Tenders as aforementioned.

(B) TRANSPORT TO THE SITE :

The equipment shall be transported to the site of BBCI by **M/s(vendor).....**
The Customs Clearance and payment of all other charges whatsoever will be the responsibility of the **M/s(vendor).....**, the Second Party.

(C) INSTALLATION:

The installation and commissioning of the **above equipment** should be undertaken by **M/s ... (vendor)....** within 3 (three) months of the arrival of the of the equipment or handing over the site for installation.

(D) COMMISSIONING :

The **above equipment** will be commissioned and handed over to BBCI by **M/s(vendor).....** for hospital / clinical use. All the requirements for hospital use of the equipment shall be fulfilled by **M/s(vendor).....**

(E) ACCEPTANCE TEST :

- (i) Whereas the equipment is to be installed at the site and the acceptance test shall be performed by **M/s(vendor).....** in presence of BBCI's official/ expert whoever may be.
- (ii) The acceptance Test shall be performed and shall be minuted by **M/s(vendor).....** A signed copy of the said minute shall be submitted to BBCI. Possible short coming / deviation in the equipment as compared to the specifications and / or to the acceptance test set out shall immediately be rectified by **M/s(vendor).....** at its own cost and risk.
- (iii) Upon the Acceptance test having been successfully performed to prove compliance of the equipment / unit with the Agreement, the certificate of acceptance shall be prepared and signed by **M/s(vendor).....** and **countersigned by BBCI** shall form evidence of acceptance of the equipment under this Agreement.

(F) USAGE :

- (i) The BBCI undertakes not to use the equipment or cause or allow the equipment to be used prior to the issuing of a certificate of acceptance.
- (ii) The equipment delivered and installed under this Agreement is to be operated and used at the site only. **M/s(vendor).....** is responsible for handing over the equipment for hospital use of BBCI.
- (iii) All mandatory requirements for making equipment fit for hospital use are the responsibility of **M/s(vendor).....**
- (iv) BBCI will operate the equipment through competent personnel adequately to be trained by **M/s(vendor).....** for use of the equipment.

(G) WARRANTIES :

- (i) Five (5) years comprehensive warranty from the date of handing over of the equipment / machinery including local items (and battery for UPS) after possessing the acceptance test and in working condition for hospital use to BBCI shall be provided by **M/s(vendor).....**
- (ii) During the warranty period **M/s(vendor).....** will provide maintenance service and any spare parts will be replaced free of charge.
- (iii) Any new application software up-gradation will be provided free of cost and without any extra charges during the warranty period.
- (iv) **M/s(vendor)...** or its authority shall during the warranty period render free services in order to make the equipment functioning uninterruptedly.
- (v) In order to enable to avail itself of its rights under this warranty, BBCI shall immediately intimate **M/s(vendor).....** in writing of any defects. BBCI shall further give **M/s(vendor)....** every opportunity of inspecting and remedying such defects.
- (vi) 95% up-time guarantee subject to normal working hours / national holidays and week-ends will be provided by **M/s(vendor).....**. If such up-time is not achieved, warranty will be extended by the same amount of time. In case down-time exceeds 10 days, penalty will be paid for the equipment to Dr. B. Borooah Cancer Institute by the **vendor (M/s.....)** @ **Rs. 15,000/-** (Rupees fifteen thousand) per day.

This penalty will also applicable during the CMC period beyond warranty period.

(vii) Comprehensive / Non-comprehensive Annual Maintenance Contract:

On expiry of the five year's warranty period, **M/s(vendor).....** will provide **Annual maintenance contract** for the equipment and the UPS including batteries from 6th year to 10th year either **comprehensive or non-comprehensive**, which will be opted by the **First Party**, at the following frozen rates.

Year	AMC charges (Rs.)	CMC charges (Rs.)
6 th year	as per rates offered by the selected vendor	as per rates offered by the selected vendor
7 th year		
8 th year		
9 th year		
10 th year		

The proforma for Annual Maintenance Contract will be as per **Annexure-4** attached to this agreement.

The AMC agreement shall include minimum of 4 preventive maintenance visits and any number of breakdown calls per year. The Service Engineer of the second party will attend all breakdown calls within 24 hours after receipt of intimation from the first party. Repairs of any required will be carried out within 72 hours by the second party.

During the period of comprehensive maintenance contract, the spare parts to be required will be supplied by **M/s.....(selected vendor).....** free of cost. However under Non-comprehensive Maintenance contract, spare parts will be charged extra.

All software updates should be provided by the second party free of cost during the CMC period.

The supplier (the second party) guarantee towards supply of spare parts of the **equipment** for a period of 15 years.

M/s.....(selected vendor)..... will depute factory-trained Engineer in Guwahati for good after sale service of the equipment.

- (viii) **M/s.....(selected vendor).....** will support 15 years life span of the supplied machine along with software, spare parts and supplied accessories.

(H) PRODUCT LIABILITY:

The equipment will be handed over to BBCI for surgical use. Upto the date of handing over the equipment, the insurance and other charges is the responsibility of **M/s.....(selected vendor).....**

(I) VISIT AT SITE :

M/s.....(selected vendor)..... or its authorized persons shall be entitled at their own cost and risk, to visit and to inspect the equipment or any part thereof, as the case may be at the site. No charges shall be levied from BBCI in connection with such visits / inspections.

(J) TRAINING :

For use of the above equipment comprehensive training will be imparted to the users of the Institute at BBCI till familiarity with the CT Simulator system by application specialist from **M/s.....(selected vendor).....** to the full satisfaction of the user Department. The training period should be at least for four weeks or more.

M/s.....(selected vendor)..... will also provide training in a well-advanced centre for two Radiation Oncologists, Two Medical Physicists and two Radiotherapy Technicians for two weeks.

The entire cost involved in the above training will be borne by the supplier.

The operational manuals / user's manual in English Language and other materials of the equipment will be supplied by **M/s.....(selected vendor).....** to BBCI.

(K) INDUSTRIAL AND INTELLECTUAL PROPERTY RIGHT :

M/s.....(selected vendor)..... is responsible for future maintenance of the equipment in the event of change of ownership or technology of the above product.

(L) BANK GUARANTEE:

M/s.....(selected vendor)..... will submit Bank Guarantee being 10% of the total value of the equipment towards satisfactory performance and services during warranty period in the prescribed format attached to this agreement as **Annexure-5** within 30 (thirty) days from the date of receipt of formal purchase order from the First Party after signing of the contract by all the parties to the agreement. The bank guarantee shall remain valid 60 (sixty) days beyond the warranty period of the equipment.

In the case of Bank Guarantee furnished from banks outside India (i.e. Foreign Banks), it should be authenticated and countersigned by any nationalized bank in India by way of back-to-back counter guarantee.

The second party shall also submit performance bank guarantee @ 2.5% of the equipment value (as per contract) during the post-warranty Annual Maintenance Contract (comprehensive) in the prescribed format '**Annexure-6**'.

(M) FORCE MAJEURE :

- (i) Either party shall be entitled to suspend performance of its obligations under this agreement to the extent that such performance is impeded or made unreasonably onerous by any of the following circumstance -

Industrial dispute, or any other circumstances beyond the control of the parties such as fire, war, extensive military mobilizations, insurrections, requisition, seizure, embargo, restriction in use of power.

- (ii) The party claiming to be effected by force-majeure shall notify the other party in writing without delay on the intervention and on cessation of such circumstance.

(N) PREMATURE TERMINATION :

Notwithstanding anything to the contrary expressed or implied in this Agreement and without prejudice to any other rights or remedies available to it BCCI may after having given M/s.....(**selected vendor**)..... not less than 30 calendar days' notice to that effect terminate this agreement in the event that the M/s.....(**selected vendor**)..... has committed any breach or violation of any fundamental terms & conditions of this Agreement and fails to remedy the said breach or violation within 30 calendar days of such notice.

(O) VALIDITY :

This agreement shall be governed by the laws of India and within the jurisdiction of Gauhati High Court.

(P) DELAYED DELIVERY:

M/s..... (**selected vendor**).... must agreed to compensate to the extent of twice the interest burden incurred by the Institute on account of delayed delivery on the equipment for reasons which are directly under M/s.....(**selected vendor**)'s control.

It is, hereby agreed to set our signatures and seals as confirmed acceptance of the terms and conditions from either side i.e. **Dr. B. Borooh Cancer Institute** represented by the **Director** as **FIRST PARTY** and M/s..... (**selected vendor**).. represented by Mr..... as **SECOND PARTY**.

For and on behalf of
Dr. B. Borooh Cancer Institute

For and on behalf of
M/s.....(**selected vendor**).....

Witnesses:

- | | |
|----|----|
| 1. | 1. |
| 2. | 2. |

Terms and conditions governing the supply, installation & commissioning(equipment name, model & make).....

1. The equipment will have to be supplied as per the enclosed configurations against each item (**Annexure : 2**) and as per the tender No.....(**Tender Notice no. & date**)...
2. The equipment should be current at the time of dispatch, i.e. to provide all latest and state of the art equipment.
3. **M/s.....(selected vendor)....** will supply **equipment (model, make)** within **Weeks / months** from the date of receipt of the formal supply order with the product configuration as mentioned at **Annexure – 2** and will abide by all the terms and conditions as laid down here-in-under and in the Notice Inviting Tenders as aforementioned.
4. **The price** of the equipment with its accessories will be Rs.....which is inclusive of customs duty, clearing & forwarding charges, octroi, VAT /CST and all other charges with five (5) years comprehensive warranty.
5. **Payment terms & conditions**
 - (i) The **payment** will be made only on receipt of final Job Completion Report of the supply, installation & commissioning of the equipment from the Inspection Committee to be constituted by the First Party (Purchaser). In this connection, the Second Party (Supplier) will submit bill for payment after satisfactory supply, installation and commissioning of the equipment.
 - (ii) **Payment for imported items** (*in case tenderer specifically mentioned in the tender offer*) will be made through Letter of Credit. 80% of the total LC amount will be released to the Supplier against delivery of the equipment and balance 20% will be released on receipt of final Job Completion Report from the Inspection Committee to be constituted by the Purchaser after satisfactory installation and commissioning of the equipment.
6. **M/s.....(selected vendor)....** will submit Bank Guarantee being 10% of the total value of the equipment towards satisfactory performance and services during warranty period in the prescribed format attached to this agreement as **Annexure-5** within 30 (thirty) days from the date of receipt of formal purchase order from the First Party after signing of the contract by all the parties to the agreement. The bank guarantee shall remain valid 60 (sixty) days beyond the warranty period of the equipment.

In the case of Bank Guarantee furnished from banks outside India (i.e. Foreign Banks), it should be authenticated and countersigned by any nationalized bank in India by way of back-to-back counter guarantee.

The second party shall also submit performance bank guarantee @ 2.5% of the equipment value (as per contract) during the post-warranty Annual Maintenance Contract in the prescribed format '**Annexure-6**'.
7. **M/s.....(selected vendor)....** shall have to deliver the above equipment **within** **weeks** from the date of receipt of formal supply order.

8. **M/s.....(selected vendor).....** will have to enter into a contract for supply, transport to the site, installation and commissioning of the equipment.
9. On expiry of the one year's warranty period, **M/s(vendor).....** will provide **Annual maintenance contract** for the equipment from 6th year to 10th year either **comprehensive or non-comprehensive**, which will be opted by the **First Party**, at the following frozen rates.

Year	AMC charges (Rs.)	CMC charges (Rs.)
6 th year	as per rates offered by the selected vendor	as per rates offered by the selected vendor
7 th year		
8 th year		
9 th year		
10 th year		

The proforma for Annual Maintenance Contract will be as per **Annexure-4** attached to this agreement.

The AMC agreement shall include minimum of 4 preventive maintenance visits and any number of breakdown calls per year. The Service Engineer of the second party will attend all breakdown calls within 24 hours after receipt of intimation from the first party. Repairs of any required will be carried out within 72 hours by the second party.

During the period of comprehensive maintenance contract, the spare parts to be required will be supplied by **M/s.....(selected vendor)..... including batteries of UPS** free of cost. However under Non-comprehensive Maintenance contract, spare parts will be charged extra.

All software updates should be provided by the second party free of cost during the CMC period.

The supplier (the second party) guarantee towards supply of spare parts of the **equipment** for a period of 15 years.

M/s.....(selected vendor)..... will depute factory trained Service Engineer in Guwahati for good after sale service of the equipment.

10. **M/s.....(selected vendor).....** will support 15 years life span of the supplied machine along with software, spare parts and supplied accessories.
11. Whereas the above equipment goes out of order it would be attended by **M/s(selected vendor)'s** service engineer **within 24 hours** from the date of receipt of information from BBCI. The supplier will remain responsible to the BBCI for proper functioning of the equipment regularly and effectively.

Annexure – 2 (part of Agreement)

SPECIFICATIONS OF SELECTED EQUIPMENTS

Technical specifications, make & model of the equipment as offered by the vendor and as per recommendation of the Technical Assessment Committee/ Purchase Committee / Finance Committee / Management Council

(to be included in details)

N.B. Other specifications as per Company's catalogues enclosed in the tender of the Second Party to the Agreement

CONTRACT FORM FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT

Annul CM Contract No.....

Date.....

Between

.....

(Address of Head of Hospital / Institute / medical College)

And

.....

(Name & address of the supplier)

Ref: Contract No..... dated (Contract No. & date of Contract for supply, installation, commissioning, handing over, trial run, training of operators & warranty of goods)

In continuation to the above referred contract

a) The Contract of Annual Comprehensive Maintenance is hereby concluded as under :-

1	2	3	4					5
Schedule No.	Brief Description of goods	Quantity (nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year					Total Amount Comprehensive Maintenance Contract Cost for 5 years
			6 th	7 th	8 th	9 th	10 th	
			a	b	c	d	e	

Total value (in figure)(in words).....

- b) The CMC commence from the date of expiry of all obligations under Warranty i.e. from (date of expiry of Warranty) and will expiry on (date of expiry of CMC).
- c) The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of warranty period may be quoted for next 5 years as contained in the above referred contract on yearly basis for complete equipment.
- d) There will be 95% uptime warranty during CMC period on 24 (hrs) x 7(days) x 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- e) During CMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service / technical / operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.

- f) All software updates should be provided free of cost during CMC.
- g) The bank guarantee valid till [(fill the date) 2 months after expiry of entire CMC period] for an amount of Rs..... [(fill amount) equivalent to 2.5% of the cost of the equipment as per contract] shall be furnished in the prescribed format given in **Schedule-C** of the Tender Enquiry document, along with the signed copy of annual CMC within a period of 21 (twenty one) days of issue of Annual CMC failing which the proceeds of Performance Security shall be payable to the Purchaser.
- h) If there is any lapse in the performance of the CMC as per contract, the proceeds AMC / CMC bank guarantee for an amount of Rs..... (equivalent to 2.5% of the cost of the equipment as per contract) shall be payable to the consignee.
- i) Payment terms : The payment of Annual CMC will be made against the bills raised to the consignee by the supplier on six months basis after satisfactory completion of said period, duly certified by the Head of the user department. The payment will be made in Indian rupees.
- j) Paying authority :..... (name of the consignee
i.e. Hospital / Institute /
Medical College's authorized
official)

(signature, name and address
of Hospital / Institute / Medical College's authorized official
For and on behalf of

Received and accepted this contract

.....
(Signature, name and address of the suppliers's executive
Duly authorized to sign on behalf of the supplier)
For and on behalf of

(Name and address of the supplier)

.....
(Seal of the supplier)

Date :

Place :

Proforma for Bank Guarantee for 10%

To
The Director
Dr B Borooah Cancer Institute
(Regional Institute for Treatment & Research)
A.K. Azad Road, Gopinath Nagar
Guwahati-781016

The deed of guarantee made this day of _____ between (name of Bank) _____ (hereinafter called the “Ban k”) of the one part, and the _____ (the Purchaser) (hereinafter called “the Purchaser”) of the other part.

Whereas _____ (the Purchaser) has awarded the Contract bearing No. _____ dated _____ for _____ (Description of Goods) (hereinafter called the contract) to _____ (Name of the supplier) (hereinafter called the Supplier).

In accordance with the provisions and Terms & Conditions of the Contract to provide for payment amounting to Rs. _____ (name and address of the Contractor) (hereinafter called “the Contractor”) shall deposit with the _____ (The Purchaser) a bank guarantee to guaranty his proper and faithful performance under the said Clause of the Contract in an equivalent amount of 10% of _____ (amount of guarantee in figures and words).

We, the _____ - (Bank), as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the _____ (name of the Purchaser) on his first demand through Demand draft payable at Guwahati without objection / demur on our part.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed there under or of any of the Contract documents which may be made between _____ (name of the Purchaser) and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

The guarantee remains valid in full effect from the date of the advance payment received by the supplier under the contract until _____ (date).

Yours truly

Signature & Seal :
Name of Bank / Financial Institution :
Address :
Date :

Bank Guarantee Form for Performance Security / CMC Security

To
The Director
Dr B Borooah Cancer Institute
(Regional Institute for Treatment & Research)
A.K. Azad Road, Gopinath Nagar
Guwahati-781016

WHEREAS _____ -- (Name and address of the supplier)
(Hereinafter called “the supplier”) has undertaken, in pursuance of contract
No..... dated..... To supply (description of goods and
services) (hereinafter called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish
you with a bank guarantee by a scheduled nationalized commercial bank recognized by you for the
sum specified therein as security for compliance with its obligations in accordance with the
contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of
the supplier, up to a total of (Amount of the
guarantee in words and figures), and we undertake to pay you, upon your first written demand
declaring the supplier to be in default under the contract and without cavil or argument, any sum or
sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to
show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before
presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to
be performed there under or of any of the contract documents which may be made between you
and the supplier shall in any way release us from any liability under this guarantee and we hereby
waive notice of any such change, addition or modification.

This guarantee shall be valid upto and including the _____ day of _____ 20...

(Signature with date of the authorized officer
of the bank)

.....
(name and designation of the officer)

.....
Seal, name & address of the Bank and address of the Branch

SCHEDULE – ‘C’

Proforma for Bank Guarantee for 10%

To
The Director
Dr B Borooah Cancer Institute
(Regional Institute for Treatment & Research)
A.K. Azad Road, Gopinath Nagar
Guwahati-781016

The deed of guarantee made this day of _____ between (name of Bank) _____ (hereinafter called the “Ban k”) of the one part, and the _____ (the Purchaser) (hereinafter called “the Purchaser”) of the other part.

Whereas _____ (the Purchaser) has awarded the Contract bearing No. _____ dated _____ for _____ (Description of Goods) (hereinafter called the contract) to _____ (Name of the supplier) (hereinafter called the Supplier).

In accordance with the provisions and Terms & Conditions of the Contract to provide for payment amounting to Rs. _____ (name and address of the Contractor) (hereinafter called “the Contractor”) shall deposit with the _____ (The Purchaser) a bank guarantee to guaranty his proper and faithful performance under the said Clause of the Contract in an equivalent amount of 10% of _____ (amount of guarantee in figures and words).

We, the _____- (Bank), as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the _____ (name of the Purchaser) on his first demand through Demand draft payable at Guwahati without objection / demur on our part.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed there under or of any of the Contract documents which may be made between _____ (name of the Purchaser) and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

The guarantee remains valid in full effect from the date of the advance payment received by the supplier under the contract until _____ (date).

Yours truly

Signature & Seal :
Name of Bank / Financial Institution :
Address :
Date :

SCHEDULE – ‘D’

Bank Guarantee Form for Performance Security / CMC Security

To
The Director
Dr B Borooah Cancer Institute
(Regional Institute for Treatment & Research)
A.K. Azad Road, Gopinath Nagar
Guwahati-781016

WHEREAS _____ -- (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract No..... dated..... To supply (description of goods and services) (hereinafter called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled nationalized commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid upto and including the _____ day of _____ 20..

(Signature with date of the authorized officer
of the bank)

.....
(name and designation of the officer)

.....
Seal, name & address of the Bank and address of the Branch

SCHEDULE – ‘E’

CONTRACT FORM FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT

Annul CM Contract No.....

Date.....

Between

.....

(Address of Head of Hospital / Institute / medical College)

And

.....

(Name & address of the supplier)

Ref: Contract No..... dated (Contract No. & date of Contract for supply, installation, commissioning, handing over, trial run, training of operators & warranty of goods)

In continuation to the above referred contract

a) The Contract of Annual Comprehensive Maintenance is hereby concluded as under :-

1	2	3	4					5
Schedule No.	Brief Description of goods	Quantity (nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year					Total Amount Comprehensive Maintenance Contract Cost for 5 years
			6 th	7 th	8 th	9 th	10 th	
			a	b	c	d	e	

Total value (in figure)(in words).....

- b) The CMC commence from the date of expiry of all obligations under Warranty i.e. from (date of expiry of Warranty) and will expiry on (date of expiry of CMC).
- c) The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of warranty period may be quoted for next 5 years as contained in the above referred contract on yearly basis for complete equipment.
- d) There will be 95% uptime warranty during CMC period on 24 (hrs) x 7(days) x 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- e) During CMC period, the supplier shall visit at each consignee’s site for preventive maintenance including testing and calibration as per the manufacturer’s service / technical / operational manual. The supplier shall visit each consignee site as recommended in the manufacturer’s manual, but at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.

- f) All software updates should be provided free of cost during CMC.
- g) The bank guarantee valid till [(fill the date) 2 months after expiry of entire CMC period] for an amount of Rs..... [(fill amount) equivalent to 2.5% of the cost of the equipment as per contract] shall be furnished in the prescribed format given in **Schedule-C** of the Tender Enquiry document, along with the signed copy of annual CMC within a period of 21 (twenty one) days of issue of Annual CMC failing which the proceeds of Performance Security shall be payable to the Purchaser.
- h) If there is any lapse in the performance of the CMC as per contract, the proceeds AMC / CMC bank guarantee for an amount of Rs..... (equivalent to 2.5% of the cost of the equipment as per contract) shall be payable to the consignee.
- i) Payment terms : The payment of Annual CMC will be made against the bills raised to the consignee by the supplier on six months basis after satisfactory completion of said period, duly certified by the Head of the user department. The payment will be made in Indian rupees.
- j) Paying authority :..... (name of the consignee
i.e. Hospital / Institute /
Medical College's authorized
official)

(signature, name and address
of Hospital / Institute / Medical College's authorized official
For and on behalf of

Received and accepted this contract

.....
(Signature, name and address of the suppliers's executive
Duly authorized to sign on behalf of the supplier)

For and on behalf of

(Name and address of the supplier)

.....
(Seal of the supplier)

Date :

Place :

SCHEDULE – ‘F’

PARTICULARS OF THE TENDERER

1. Name of the tenderer :
2. Establishment type :
(Company / firm / Dealer / Stockist / Contractor / Supplier)
3. Year of establishment :
4. Address of the Registered Office :
5. PAN Number :
(photocopy of PAN card to be attached)
6. Branches in India :
7. Nature of business :
8. Experience in the relevant field :
9. Total Manpower :
10. Technical Staff all over India :
(with name , designation & contact nos.)
11. Technical Staff or Engineers based at Guwahati :
(with name , designation & contact nos.)
12. Service Engineers posted in the North-East India :
(with name, designation, qualification & contact nos.)

Signature and seal of the Tenderer

SCHEDULE – ‘G’

PROFORMA FOR PERFORMANCE STATEMENT

(for the period of last three years)

Tender Reference :

Date of Opening :

Time :

Name and address of the tenderer :

Name and address of the manufacturer :

Order placed by (full address of purchaser)	Order number and date	Description and quantity of ordered items and services	Value of order (Rs.)	Date of completion of contract		Remarks indicating reasons for delay if any	Have the goods been functioning satisfactorily (attach documentary proof)**
				As per contract	Actual		
1	2	3	4	5	6	7	8

Signature and seal of the Tenderer

** The documentary proof will be a certificate from the consignee / end user with cross-reference of order no. and date in the certificate along with a notarized certification authenticating the correctness of the information furnished. If at any time, information furnished is proved to be false or incorrect, the earnest money furnished will be forfeited.

*In respect of above certificate from chartered Account can be produced with all the requisite details.

SCHEDULE - 'H'

MANUFACTURER'S AUTHORIZATION FORM

To

.....
.....
(name and address of the purchaser)

Dear Sirs,

Ref. Your Tender Enquiry document No..... dated.....

We, who are proven and reputable manufacturers of (name and description of the goods offered in the tender) having factories at, hereby authorize Messrs.....(name and address of the agent) to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred Tender Enquiry Documents for the above goods manufactured by us.

We also hereby extend our full warranty and AMC / CMC as applicable as per terms & conditions of the tender documents, read with modification, if any, in the special conditions of contract for the goods and services offered for supply by the above firm against this tender enquiry document.

Yours faithfully,

(signature with date, name and designation)

For and on behalf of Messrs.....

(name & address of the manufacturers)

Note :

- i. This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.
- ii. The original letter may be sent.

Dr. B. Borooah Cancer Institute

*(Regional Institute for Cancer Treatment & Research
Guwahati-781016*

**Subject .. Purchase of CT SIMULATOR MACHINE WITH ACCESSORIES
at Dr B Borooah Cancer Institute, Guwahati**

Tender Notice .. No. BBCI/Misc-27/RPP-IV/NIT/ 3346 / 2012 dtd.28.02.2012

Tender documents issued as follows :

(a) Detail Tender Enquiry Document (Page : 1 to 34)

Issued by –



Director

Dr B Borooah Cancer Institute
Guwahati-781016

***Received the Tender papers
From the office of the Director,
Dr B Borooah Cancer Institute***

on payment of non-refundable
***Tender Fee amounting to Rs.2,000/-
(Rupees two thousand only) in cash /
Vide Banker's Cheque / Bank Draft No.....
dt..... (Bank :)***

TENDERER

(Name & Signature)

Date :