## Amendment No.VI Dated 07.02.2018 HSCC/PUR/CNCI/Kolkata/Medical Equipment/03 dt. 15.11.2017

**Procurement of Medical Equipment CNCI 2nd Campus** 

All bidders are requested to note the following:

1. SCC Clause no. 9 under section V may please read as under:

Reimbursement of Custom Duty & IGST: CNCI deserves for customs duty exemption through DSIR certificate. The custom duty & IGST amount as mentioned in the price schedule section –XI (B) (convert in INR at the rate of exchange mentioned in bill of entry) will be compared with the actual total custom duty & IGST amount levied by custom department and reimbursed to the supplier as per below:

- a) If the custom duty & IGST amount as mentioned in the price schedule section –XI (B) is equal to the actual total custom duty & IGST amount levied by custom department, the actual total custom duty & IGST amount levied by custom department shall be prevailed and reimbursed to the supplier in INR accordingly.
- b) If the custom duty & IGST amount as mentioned in the price schedule section –XI (B) is more than actual total custom duty & IGST amount levied by custom department, the actual total custom duty & IGST amount levied by custom department shall be prevailed and reimbursed to the supplier in INR accordingly.
- c) If the custom duty & IGST amount as mentioned in the price schedule section –XI (B) is less than the actual total custom duty & IGST amount levied by custom department, the custom duty & IGST amount as mentioned in the price schedule section –XI (B) shall be prevail and reimbursed to the supplier at rate of exchange rate mentioned on the bill of entry in INR accordingly.
- 2. SCC Clause no. 2 under section V "....two year compressive warranty cost including all spare...." stands deleted.
- 3. Price may submit on revised price schedule format as attached.

All other terms and conditions of the tender enquiry document shall remain unchanged.

Prospective bidders are advised to regularly visit HSCC website/ CPP as corrigendum /amendments etc. if any, will be notified on this portal only, no separate advertisement will published in the news papers.

Chief General Manager, HSCC (I) Ltd For & on behalf of Director CNCI, Kolkata

## Annexure A

## Item No.1 MRI 3 Tesla

Tender Specifications Item No.1 MRI 3 Tesla	May please read as
3.E. Silent MRI" sequence package. Please specify the decibel levels for silent MRI and list the sequences where silent MRI not available to be included in standard package.	Tender terms prevail.
4. RF System2.A) If the vendor has additionally technology like Zoom it/FOCUS or equivalent for selective excitation within a user specified FoV, the same should be quoted. True shape and true form or equivalent technologysuch as multi-drive/multi transit 4D to be quoted	If the vendor has additionally technology like Zoom it/FOCUS or equivalent for selective excitation within a user specified FoV, the same should be quoted. High resolution, distortion free diffusion capabilities should be offered
4.B. It should also have at least 32 independent RF receiver channels "acquisition" with each having bandwidth of 1 MHz or more along with necessary hardware to support quadrature array / Matrix coils.	Tender terms prevail.
4.c. It should support Parallel acquisition techniques with a <b>factor of 12 or more</b> . Highest available PAT factor to be quoted.	Tender terms prevail.
5.APatient table should be fully motorized with computer controlled table movements in vertical and horizontal directions. (Specify the patient load capacity).	Patient table should be fully motorized and dockable with computer controlled table movements in vertical and horizontal directions. (Specify the patient load capacity).
8.iMultichannel Head coil with 32 channels or more for EPI/DTI application.	Tender terms prevail.
8.v. Suitable surface coil for peripheral angiography application of at least 32 channels Suitable surface / phased array coil for peripheral angiography application of at least 32 channels with coverage of minimum 80 cm, with single or combination of coils. For Angio application if the coils offered are in combination it will be counted as 1 coil for the purpose of peripheral angiography.	Tender terms prevail.
8.vi. Bilateral Breast Coil with at least 16 channels with fully functional spectroscopy	With Biopsy attachment.
8.ix Dedicated Wrist Coil - 8 channels	Tender terms prevail.
8.x. Large (2 quantity) - 4 channel Small (2 quantity) - 4 channel	Tender terms prevail.
8.xi. Small flex coil for paediatric and neonatal head and neck applications- 8 channels or more	Small flex coil for paediatric and neonatal head and neck applications- 4 channels or more
8.xii. Dedicated Ankle Coil with 16 channels or more.	Dedicated Ankle Coil with 8 channels or more.
9(I) Prostate Imaging with Parametric cards (Ktrans, Kep, Ve, Vp) – quote this as optional and price will not be included in calculation for L1	Prostate Imaging with Parametric cards (Ktrans, Kep, Ve, Vp) – quote this as standard.
9( J ) Workflow improvement Techniques with availability of "Previous" Scans such as Smart Exam/Auto Align/Ready for Brain application to be provided.	Workflow improvement Techniques with availability of "Previous" Scans such as Smart Exam to dot engine package/Auto Align/Ready for Brain application to be provided

10. iv) MRI – HIFU complete system with application for fibroid, prostate, bone etc.	Point deleted.
10.v. "Silent MRI" sequence package. Please specify the decibel levels for silent MRI and list	Point deleted.
all the sequences with their acquisition time where silent MRI is not available.	
10.vii) Breast coil, biopsy attachment – 4 channels.	Point deleted.
10.ix) Coil for Cardiac application	Coil is required as standard.
11. Client server architecture-server with 5 concurrent clients (Dexus, intelligence portal, Syngo. Via etc or higher) capable of rendering 4000 images at peak performance. Workstation hardware should be industry standards, and should be the latest with the vendors, as per their globally launched product catalogue	Client server architecture-server with 5 concurrent clients (Dexus, intelligence portal, Syng Via etc or higher) capable of rendering 20000 images at peak performance. Workstati hardware should be industry standards, and should be the latest with the vendors, as per the globally launched product catalogue
11. A.ii) Advanced post-processing offered applications including FMRI, perfusion quantification, advanced diffusion and DTI, advanced cardiac evaluation(EF, Calculation, Wall motions, analysis) including perfusion analysis, processing of 2D/3D CSI data, with colormetabolite mapping, quantification of CSF flow data, vascular analysis package on at leasttwo clients concurrently.	All optional items to be quote as standard.
13. Accessories	Tender terms prevail.
<b>A-</b> DICOM compatible Dry Chemistry laser camera (1 No.s) with integrated processor for filming from main console & workstation. The camera should be capable of printing on films of 14" x 17", 11" x 14" and 10" x 8" sizes in a resolution <b>of 600 or more dpi.</b> It should be possible to connect other imaging modalities to the printer. 2000 compatible films to be provided. Films to be provided after installation as and when required by the user. Main equipment (MRI) in the emergency block to be networked with cameras of CT and DRF camera in the emergency block.	
Added	<ul> <li>i) All necessary licences for connectivity with treatment planning system.</li> <li>Linear accelerator and Brachytherapy machine.</li> <li>ii) Flat table top compatible for Linear Accelerator for Radiotherapy Treatment Planning.</li> </ul>
Item No. 2 CT Scan 256 Slice	
iv) The sub millimetre Slice @ 0.63 mm or less in 128 rows or more of detector with 256 or a	
acquisitions should be available. The system should be in position to perform256 acquis	-
Slices/ Rotation for general, cardiac/vascular applications. (Specify the submillimetre thickness in millimetres)	
ii) The System X ray power should be 100 kW (actual power) and above	Tender terms prevail.
iii) The mA range available should be between 20 to 800 mA or more with increments in stemost more than 10mA.	-

3) Detectors:	at least 128 physical detectors rows as single layer/dual set/dual layer.
ii) The 256 acquisition slice or more per Rotation should be possible. The Systems should have	
at least 128 Physical Rows of the detector or more.	
iii) Specify the Fan Angle of the X rays and the geometry. The detectors should not require	The detectors should not require frequent calibration.
frequent calibration.	
4) Patient Couch: vii) Remote UP/DOWN, FWD/BWD of the Patient Couch should be standard	Remote FWD/BWD of the Patient Couch should be standard
6. iv) Multi Slice CT Fluoroscopy to be quoted as standard. Price	Please quote as standard.
should be quoted separately.	
7) Computer Section: x) CT should be with dual monitor console with two concurrent	
workstations (thin client server architecture based solution) comprising of medical grade monitors	Tender terms prevail.
(2 mega pixel resolution) with at least 8GB RAM. The server should have image storage capacity of	
3 Tera bytes, minimum 20000 concurrent slice processing power and at least 32 GB RAM. It can	
be single/dual server configuration. The two concurrent workstations should have processing	
capabilities for basic 2D /3D and following advanced applications.	
8. i) Computer Aided Detection (CAD) to be provided	for lungs and colons.
8. ii) Computer Aided Detection (CAD) to be provided	for lungs and colons.
8. x) The system should have standard software like 3D Volume rendering, MIP,CT angio,	Osteo CT deleted.
colorangio Display, CTPerfusion, Dental scan, Bone Mineral Study should be available as	
standard on the Workstation.	
9) Resolution: ii) The high contrast resolution should be more then 14.5 lp/mm in all routine	Tender terms prevail.
scan, including spiral and axial mode.	
iii) The low contrast resolution should not be more than 3 mm at 0.5 %. Shoulder, Pelvis Streak	The low contrast resolution should not be more than 5 mm at 0.3 %. Shoulder, Pelvi
Artifact suppression Software should be standard.	Streak Artifact suppression Software should be standard.
10)Accessories:(Make and Model of all the quoted accessories should be specified)	Multi parametric CT performance evaluation Phantom (Slice
xi) CT Phantom with various density for CT no. check.	geometry/noise/HCD/LCD/sensitometry/MTF) ACR phantom.
xv) Tumour ablation system with treatment planning solution & RF generator .	Tender terms prevail.
xvi) Specifications as below.	Intelliflow pumphas been deleted.
a) Computerized needle positioning guiding tool along with radio frequency ablation system for	
CT guidance in tumor ablation.	
b) System should support different ablation system.	
c) Registration of the data, post processing segmentation before and after ablation should	
be possible	
d) Overlay of non-contrast images with contrast images to be possible.	
e) Should include radio frequency ablation generator with:	
1) Frequency at least 450KHz.	
<ol> <li>Frequency at least 450KHz.</li> <li>To support multiprong electrode and capable of 7cm ablation in one sitting.</li> </ol>	

4) RFA accessories- Intelliflow pump, RFA probes, multiprong electrodes and coaxial biopsy gu	
of 9cm and 15cm with 20cm throw.	
iii) <b>Penalty clause:</b> Penalty at the rate of RS.10,000/ per day for short falling of 95% uptim	As per CNCI bid document.
guarantee. If the machine lies non-functional for a period of more than two weeks continuously	
the same penalty will be imposed even if 95% uptime clause is met with for the given calenda	
year.	
11. iii) Penalty clause: Penalty at the rate of 10,000/- per day	As per CNCI bid document.
11. iv) Uptime warranty: if downtime exceeds 5% there shall be penalty of Rs 10,000/per day	As per CNCI bid document.
12) Training i) Qualified personnel nominated by the deptt, should be given application training	On site application training for one month.
by the vendor at their cost at site for three months and as and when required.	Two doctors and four technologist at site/ reputed institute having the same
	CT with the same specifications for two weeks in phases.
13)Certifications: vi) Dual energy application must be possible on all workstation and all fields of	Dual energy application must be possible on all workstation and all fields of view.
view with minimum FOV 33cm.	Please specify minimum FOV.
	All dual energy applications available should be quoted with FOV as standard.
	Future applications should be provided free of charge during life time of the
	machine.
vii) Also Specify the DUAL ENERGY APPLICATION like Metal Artifact Correction/Beam	deleted.
viii) Hardening artifact Correction, Brain Haemorrhage and virtual non contrast and direct Angi	deleted.
are available in the system. Any other application for dual energy if present in future upgrade	
should be part of the system.	
	The quoted model must have AERB type approval /NOC at the time of bid
should be part of the system.  Added	The quoted model must have AERB type approval /NOC at the time of bid submission.
	submission.
	submission.  All necessary licences for connectivity with treatment planning system,
Added	submission.  All necessary licences for connectivity with treatment planning system,  Linear accelerator and Brachytherapy machine.
Added  Item No.3 Digital Mammography	submission.  All necessary licences for connectivity with treatment planning system,  Linear accelerator and Brachytherapy machine.  Tender terms prevail.
Added  Item No.3 Digital Mammography  I (1) Should be an advanced high-end digital mammography machine upgradable to 31	submission.  All necessary licences for connectivity with treatment planning system,  Linear accelerator and Brachytherapy machine.  Tender terms prevail.
Added  Item No.3 Digital Mammography  I (1) Should be an advanced high-end digital mammography machine upgradable to 31 mammography / Tomosynthesis. Tomosynthesis upgrade should not be a separate add on an	submission.  All necessary licences for connectivity with treatment planning system,  Linear accelerator and Brachytherapy machine.  Tender terms prevail.
Added  Item No.3 Digital Mammography  I (1) Should be an advanced high-end digital mammography machine upgradable to 31 mammography / Tomosynthesis. Tomosynthesis upgrade should not be a separate add on an should be integral to the system. Tomosynthesis should be possible in all positions i.e. inclusive	submission.  All necessary licences for connectivity with treatment planning system,  Linear accelerator and Brachytherapy machine.  Tender terms prevail.
Added  Item No.3 Digital Mammography  I (1) Should be an advanced high-end digital mammography machine upgradable to 31 mammography / Tomosynthesis. Tomosynthesis upgrade should not be a separate add on an should be integral to the system. Tomosynthesis should be possible in all positions i.e. inclusiv of CC and MLO	submission.  All necessary licences for connectivity with treatment planning system,  Linear accelerator and Brachytherapy machine.  Tender terms prevail.  Tender terms prevail.
Item No.3 Digital Mammography  I (1) Should be an advanced high-end digital mammography machine upgradable to 31 mammography / Tomosynthesis. Tomosynthesis upgrade should not be a separate add on an should be integral to the system. Tomosynthesis should be possible in all positions i.e. inclusiv of CC and MLO  2. Should have facility to do stereotactic biopsy.	submission.  All necessary licences for connectivity with treatment planning system,  Linear accelerator and Brachytherapy machine.  Tender terms prevail.  Tender terms prevail.
Item No.3 Digital Mammography  I (1) Should be an advanced high-end digital mammography machine upgradable to 31 mammography / Tomosynthesis. Tomosynthesis upgrade should not be a separate add on an should be integral to the system. Tomosynthesis should be possible in all positions i.e. inclusiv of CC and MLO  2. Should have facility to do stereotactic biopsy.  3. Facility to place the Patient for stereotactic biopsy on a couch for patientComfort(supine of the country of the patient for stereotactic biopsy).	submission.  All necessary licences for connectivity with treatment planning system,  Linear accelerator and Brachytherapy machine.  Tender terms prevail.  Tender terms prevail.

III (1) Dual track X-ray tube with dual focus for each track.	
III (2) Focal spot size 0.1 and 0.3 mm for both tracks.	Tender terms prevail.
3. Anode heat storage capacity should be at least 150 KHU	Tender terms prevail.
IV. Gantry assembly:  1. It should be an isocentric system	Should be preferably iso-centric system.
IV (4) The patient compression device should be motorised automatic and should have multispeed variable system. It should be state of the art.	Tender terms prevail.
6. Should have facility for magnification 1.5 and 1.8	Should have facility for magnification. Please specify factors.
12.(a).Large paddle for 18X24 and 24X30 cms.	It should be 18x24 and 24X30+/-1cm.
12 d. Special paddles if available should be quoted- optional.	Two Special paddles if available should be quoted as standard example:  1.Spotmagnification paddle
	2.Perforated localization paddle
V(2) The anode track and filters shall be selected automatically and manually.	Tender terms prevail.
VI. Flat panel detector 1. Should have a large flat panel detector of size at least 24x29cms and the pixel size should be 100 micro meter or less	<b>Flat panel detector 1.</b> Should have a large flat panel detector of size at least 24x29cms +/- 1 cm.
6. No Ghosting or lag effect should be present, specify image depth .	Tender terms prevail.
VII (10). Acquisition workstation should be height adjustable for operator convenience.	Acquisition workstation / monitor should be height adjustable for operator convenience.
<ul><li>VIII. Reporting Work station</li><li>2. Monitor should be approved for Mammography reporting. Where Web QA is available, vendor to provide license for web QA.</li></ul>	Tender terms prevail.
<b>3 h.</b> Image evaluation like contrast enhancement histogram display, length measurements before and after comparison etc.,	Tender terms prevail.
4 There should be a DVD ROM drive, Quadrant zooming or selected zooming function should beavailable. The RAM should be minimum 4GB. The online storage capacity should be more than 5000images. Hard disk capacity should be expandable. There should be multi modality viewer shoulddisplay ultra sound x-ray digital mammography, MRI, PET, CT etc. At least 2 high contrast resolution5mp LCD medical grade monitors should be provided.	in addition 5MP monitors should be FDA approved for mammography and tomosynthesis reporting.
<b>IX</b> 3. Facility for needle core biopsy, Fine needle aspiration and wire localization should be available.	with core biopsy gun.

4. Should be compatible to use with vacuum assisted biopsy.	Tender terms prevail.
X. SYSTEM CONFIGURATION	Motorized, Height adjustable &Trendlenberg chair for patient 01: Akurai or
6. Height adjustable &Trendlenberg chair for patient 01	equivalent
XI(4) UPS/CVT of suitable rating conforming to IS-302 to be supplied.	Tender terms prevail.
XII (4) The digital mammography unit with all features as per specification and thestereotactic system shall be CE &FDA approved and if other international standard certificates are available should be mentioned. Tomosynthesis should be CE Certified.	In addition:  The FDA approval must be on the name of the quoted model". FDA certificate with model name and number should be provided.
The unit and x ray tube should be approved by AERB.	The quoted model must have AERB type approval /NOC at the time of bid submission
5. The offered unit should have a minimum of 5 installations in the country, of the same model, and this should be supported by end user certificates, purchase order copies and installation reports.	The offered unit should have a minimum of 3 installations in the country, o the same model, and this should be supported by end user certificates purchase order copies and installation reports.
<b>XIII 6.</b> Five years comprehensive on site warranty of entire system (Spares and labour), without anyexclusion, including detector, X-ray tube, computers and all other accessories peripherals like UPS etc This will be followed by 5 years CMC to be quoted separately, year wise.	UPS batteries shall be covered under warranty and CMC period.
7. CMC should cover all updates.	UPS batteries shall be covered under warranty and CMC period.
<b>Uptime guarantee:</b> During warranty and the CMC period, the uptime of the system shall be at least 95% of the 365 days in a year. If downtime exceeds 5%, there shall be a penalty of Rs.2000 / per day.	Please refer to our CNCI Bid document.
Others	
	The equipment shall be supplied on turnkey basis as per AERB regulations which will include the following  a. Lead lining as required  b. Necessary A.C.  c. Civil/Electrical/Mechanical /Finishing  d. Furniture Ex:-table ,chairs, almirah , apron rack, wall cabinet
Include as optional item	Point deleted.
<b>Penalty clause:</b> Penalty at the rate of RS.2000/ per day for short falling of 95% uptime guarantee. If the machine lies non-functional for a period of more than two weeks continuously, the same penalty will be imposed even if 95% uptime clause is met with for the given calendar year.	Tender terms prevail.
New guidelines of ELORA in order to initiate procurement permission by the department well in	All necessary registration, licenses from AERB shall be responsibility of

	Т
time.	vendor.
Payment terms 21.1(A)	Tender Terms Prevail
Item No.4 Digital Fluro Radiography	
General:	
High powered X-ray unit with Digital flat panel for various fluroscopy and radiography examinations for the department of radio diagnosis. The Unit should be equipped with integrated high-frequency generator, digital detector and Digital Image processing system. It should becapable of performing all plain and contrast enhanced radiology and fluoroscopy along-withangiography facility for interventional procedures. Among three major components tube/generator /detector at least two component must be manufactured by quoting vendorthemselves. It should be US FDA approved. Type approval from AERB is mandatory. The vendorshould have prior experience of supplying same/similar equipment in India in the reputed government or private institutions as per DGHS /MOHFW guidelines. The order copies and performance certificates from these reputed (Govt./Private institutions) should be available. The system should have the following essential features. The bidder should quote their latest model. Please mention year of launch. Supplier should have a trained service engineer in the state	The quoted model must have AERB type approval /NOC at the time of bid submission.  Performance certificate from reputed (Govt./Private institutions) in India/reputed hospitals in abroadshould be available.  In addition supplier should have a trained service engineer in or around Kolkata for better uptime.  Rest of the Tender Terms Prevail.
of supply for better uptime.  Point 1.i.1000mA unit with microprocessor controlled high frequency (100 KHz) X-ray generator.	1000mA unit with microprocessor controlled high frequency (≥ <b>50 KHz)</b> X-ray generator.
ix) Fluoro mA 0.2-6 mA.	Fluoro mA 0.2-4 mAor more.
2) TABLE:  ii) Table should have minimum lowest height of 90 cm or lesser to facilitate easy patient transfer.  iii) System should have motor driven longitudinal and horizontal table top movements. Please specify the range of movements.	Table should have minimum lowest height of 55cm or lesser to fecilitate easy patient transfer.  Tender Terms Prevail.
iv) Table should have angulations from vertical to head down positions.  (Vertical +90 Degrees to Trendelenburg - 20 degrees).	Table should have angulations from vertical to head down positions.  (Vertical +90 Degrees to Trendelenburg -20 degrees or more)
v) Table should support patient weight upto 250 kgs.	Table should support patient weight upto 200 kg with all movements.
3.ii.The X Ray tube should have dual focal spots. Large focal spot of 1 mm or lower. Small focal spot of 0.7 mm or lower.	Tender Terms Prevail
v) "Large focal spot power rating should be in the range 70 to 90 kW"	Tender Terms Prevail
4) Digital Imaging system for Fluroscopy:  i) Field of view of at least 40cms or more.	Tender Terms Prevail
<b>5.i</b> "Tube Column – detector assembly movement should be motorized and not less than 160cm"	"Tube Column – detector assembly movement should be motorized and <b>not</b> less than 105 cm"

5.ii.Tube Column – detector assembly movement should be motorized and not less than 160cm.	Tube Column - detector assembly movement should be motorized and no
	less than 105 cm or more.
5.iii.Tube rotation should be preferably motorized -90/+180 degrees	Tender Terms Prevail
6) DETECTOR SYSTEM:- ii) Detector must be at least 40x40 cms or more	Tender Terms Prevail
iv) Pixels size should be 150 microns or lesser.	Pixels size should be <b>160 microns or lesser</b> .
.viii.Specify refresh cycle (time for second exposure).	Tender Terms Prevail
ix) Frame rate should be at least 1 to 30 image/sec.	Tender Terms Prevail
x) Dynamic range should be 16 bits or more.	Dynamic Digitization Depth/range should be 16 bits or more.
7. iii) "Digital Fluoroscopy at minimum of 15 f/s at 1024 matrix or better"	"Digital Fluoroscopy at minimum of 12 f/s at 1024 matrix or better"
xi) "The system should have capability of online digital subtraction angiography facility with image	Tender Terms Prevail
filters road mapping and peak pacification facilities.	
xii) "In DSA mode the frame rate should be atleast 8 per second."	Please specify frame rate.
8 i) "Total of 4 monochrome monitors of 19 inches each to be provided - of these two should be	"Total of 4 monochrome monitors of 19 inches each to be provided - of the
ceiling suspended in examination room. Other two in console room."	two should be in examination room. Other two in console room."
<b>iii)</b> Post acquisition image processing viewing reprocessing hardcopy documentation and onward transmissionshould be possible while doing fluoroscopy or radiography. System should have the facility to integrate display of sources such as endoscopy / ultrasound on the right-handmonitor of the examination room display unit.	Post acquisition image processing viewing reprocessing harded documentation and onward transmissionshould be possible while doi fluoroscopy or radiography. Preferably System should have the facility integrate display of sources such as endoscopy / ultrasound.
9. ii) "The system should have facility for edge enhancement, positive/negative image display	Tender Terms Prevail
windowing contrast brightness electronic shuttering image pixel shifting vertical and horizontal	
image reversal zoom functions"	
12) C.M.C :Comprehensive Maintenance charges of complete system for which order is placed	WPG1 w i d III
including turnkey works must be quoted year-wise for next 5 years after completion of warranty.	UPS batteries shall be covered under warranty and CMC period.
20) TURNKEY	layout will be provided.
i) Necessary Turnkey modification of the provided premises is to be done by	Turnkey quotation to be submitted assuming area of 1500 square feet with
the vendor.	scope of work clearly defined as per standard PMSSY / 6 new AIIMS radiological radiological results and results are results as the results are results are results as the results are results as the results are results are results as the results are results as the results are results as the results are results are results as the results are results as the results are results are results as the resu
	tenders and should be as per AERB guidelines including lead lining .
	In addition to furnitures asked for following also should be provided –
	Almirah, bookrack and wall cabinet for storage purpose.
Commercial	
	Payment terms under clause 21.1 (B) (for all items 1 to 6)
	75% may be please read 80% and 25% may please be read as 20% other term
	under this clause remain same
Special Conditions Of Contract (SCC)	Tender Terms Prevail
Custom Duty	Tender Terms Prevail

the despatched equipments issued by recognized/ reputed agency like SGS, Lloyd or equivalen	t
(acceptable to the purchaser) prior to despatch	
SECTION - VI Required Delivery Schedule:	Tender Terms Prevail
a) For Indigenous goods or for imported goods if supplied from India: 90 days from date o	f
Notification of Award to delivery at consignee site. The date of delivery will be the date of delivery	7
at consignee site.	
B) Payment for Imported Goods:	Payment terms under clause 21.1 (B) (for all items 1 to 6)
Payment for foreign currency portion shall be made in the currency as specified in the contract in	
the following manner:	75% may be please read 80% and 25% may please be read as 20% other
a) On Shipment:	terms under this clause remain same.
Seventy Five (75) % of the net CIP price (CIP price less Indian Agency commission) of the goods	3
shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour	r
of the supplier in a bank in his country and upon submission of documents specified hereunder:	
On Acceptance:	
Balance payment of 25 % of net CIP price of goods would be made against 'Final Acceptance	
Certificate' as per Section XVIII to be issued by the consignees to the supplier.	
The supplier shall submit the original final acceptance certificate to the Purchaser (HSCC India	ı
Ltd) who shall issue no objection certificate to the banker for payment through irrevocable Letter	
of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to	
of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to recoveries, if any.	
recoveries, if any.	Preferably articulated or telescopic arm if other please specify.
em No.5 Digital Mobile X- Ray	Preferably articulated or telescopic arm if other please specify.
em No.5 Digital Mobile X- Ray  The unit should be compact easily transportable digital mobile radiographic unit with articulated ortelescopic arm and built in monitors. It should be suitable for bedside x-	Preferably articulated or telescopic arm if other please specify.
em No.5 Digital Mobile X- Ray  The unit should be compact easily transportable digital mobile radiographic unit with articulated ortelescopic arm and built in monitors. It should be suitable for bedside x-ray for ward patients, intensivecare units and operation theatres. If the DR system is	Preferably articulated or telescopic arm if other please specify.  Out of three major components (Detector, X-Ray Tube & X-Ray Generator) a
The unit should be compact easily transportable digital mobile radiographic unit with articulated ortelescopic arm and built in monitors. It should be suitable for bedside x-ray for ward patients, intensivecare units and operation theatres. If the DR system is inoperable it should be able to function asconventional system. Out of three major components (Detector, X-Ray Tube & X-Ray Generator) at least twoshould be from the same manufacturer. It should be FDA approved. Type approval from AERB ismandatory. The vendor should have prior experience of supplying ame/similar equipment in India in thereputed government or private institutions as per DGHS	Preferably articulated or telescopic arm if other please specify.  Out of three major components (Detector, X-Ray Tube & X-Ray Generator) a least two should be <b>preferably</b> from the same manufacturer.  The quoted model should be FDA /European CE with 4 digit registration approved. The vender should have service centre aroun Kolkata.
The unit should be compact easily transportable digital mobile radiographic unit with articulated ortelescopic arm and built in monitors. It should be suitable for bedside x-ray for ward patients, intensivecare units and operation theatres. If the DR system is inoperable it should be able to function asconventional system. Out of three major components (Detector, X-Ray Tube & X-Ray Generator) at least twoshould be from the same manufacturer. It should be FDA approved. Type approval from AERB ismandatory The vendor should have prior experience of supplying ame/similar	Preferably articulated or telescopic arm if other please specify.  Out of three major components (Detector, X-Ray Tube & X-Ray Generator) a least two should be <b>preferably</b> from the same manufacturer.  The quoted model should be FDA /European CE with 4 digit registration approved. The vender should have service centre aroun
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v) mAs range: 0.1 – 350 mAs ( to specify mA and seconds separately)	mAs range: <b>0.2 – 320 mAs or more</b> ( to specify mA and seconds separately)
vi) Exposure time range: 0.004 – 10 s	Exposure time range: Please specify.
C) X-Ray Tube:  ii) Focal spot should be less than 1 mm	Tender terms prevail
iv) Heat storage capacity of the anode : 120 KHU or better	Tender terms prevail
E) Flat panel detector:  iii) The detector pixel matrix size should be 2.0K x 2.0K or more.	Tender terms prevail
iv) Pixel size 200 microns or less	Pixel size 150 microns or less  It should have ingress protection
v) The machine should have a detector storage compartment.	Tender terms prevail
vi) The image viewing time after exposure should not be more than 10 sec.	Tender terms prevail
F. v) The battery should be able to be charged from a normal 15A 230 V single phase socket in less than 6 hours.	The battery should be able to be charged from a normal 15A 230 V single phase socket in less than <b>8</b> hours.
G. Workstation:  iv) The touch screen size should be at least 15 inches.	Tender terms prevail
vii) Dry Chemistry Printer:- The System should be supplied with dry imager (dry chemistry) with a spatial resolution of 500 ppi/dpi or more. It should have contrast resolution of 12 bits/pixel or more. It should have all possible film sizes. The imager should preferably come with standard films sorter at the output for sorting the films based on modality connected. It should have a normal through put of 75 films per hour for the largest size. Access time for 1st film 90 seconds or less. The imager should be DICOM compatible for receive send and print facility. The system allows at least 3 sizes from the five sizes to be loaded at any time. Printer status should be displayed for any error status etc.  I. vi) 2 Grids of at least 8:1 or better ratio and frequency should be provided.	Dry Chemistry Printer:- The System should be supplied with dry imager (dry chemistry) with a spatial resolution of 500 ppi/dpi or more. It should have contrast resolution of 12 bits/pixel or more. It should have all possible film sizes. It should have a normal through put of 75 films per hour for the largest size. Access time for 1st film 90 seconds or less. The imager should be DICOM compatible for receive send and print facility. The system allows at least 3 sizes from the five sizes to be loaded at any time. Printer status should be displayed for any error status etc.  2 Grids of at least 6:1 or better ratio and frequency should be provided.
Addendum request: Flat Panel Detector should have ingress protection: IP 33 or better	Tender terms prevail
Addendum request: Supplier should provide one time detector replacement during warranty due to whatever failure	Supplier should provide one time detector replacement during warranty due to whatever failure

iii) The exposure release switch should bedetachable with a cord of at least 5 meters. Exposures with remote control should bepossible. Remote control should be offered with system.	The exposure release switch should be detachable with a cord of at least <b>4.5</b> meters. Exposures with remote control should be possible. Remote control should be offered with system.
Commercial	
GCCClause:SpareParts 12.1.b.ii:-  Immediately following such discontinuation, providing the Purchaser / Consignee free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser /Consignee	Supplier shall provide an undertaking to provide spare parts for specific period of time for 10 years.
GCC: Warranty: Clause 15.10:-  The Supplier along with its Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers ofIts equipments/machines/goods etc. and shall always give the most competitive price for its machines/equipmentssupplied to the Purchaser/Consignee	Tender Terms prevail.
GCCPayment ofTurnkey: Point No 21.1(C)  Turnkey payment will be made to the manufacturer's agent in Indian rupees indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation.	For all items 1- 6, Turnkey payment will be made on pro- rata basis against work done certified by site In- charge, other terms shall prevail as per tender document terms.
GCCPaymentofDomestic GoodsLocatedwithinIndia Point No.21.1:  80% payment of the contract price shall be paid on receipt of goods in good condition and upon Balance 20% payment would be made on submission of	Tender Term Prevail
SCCPointno-9-cReimbursement of Custom Duty:-  If the custom duty amount as mentioned in the price schedule section -XI (B) is less than the actual totalcustom duty amount levied by custom department, the custom duty amount as mentioned in the price schedule section -XI (B) shall be prevail and reimbursed to thesupplier at rate of exchange rate mentioned on the bill ofentry in INR accordingly	Tender Term Prevail
SECTION- VI Required Delivery Schedule a)  For Indigenous goods or for imported goods if supplied from India: (i) Delivery period for Radiology, Radio therapy Equipments: 90 days from date of Notification of Award to delivery at consignee site. The date of delivery will be the date of delivery at consignee site. (ii) Installation and commissioning period Radiology, Radio therapy Equipments:- 90 days for receipt of the stores/goods  delivery at site or 90 days from handing over the site or instruction for installation, whichever is later.	Tender Term Prevail
SECTION - VI Required Delivery Schedule b  For Imported goods directly from foreign through LC:  (i) Delivery period for Radiology, Radiotherapy Equipments: 90 days from date of Notification of	For all items 1 -6: The date of delivery will be thedate of <b>AWB/Bill of Lading.</b>

Award to delivery at	
consignee site. The date of delivery will be the date of delivery at consignee site. (ii)Installation and	
commissioning period Radiology, Radio therapy Equipments:- 90 days for receipt of the stores,	
goods delivery at site or 90 days from handing over the site or instruction for	
installation,whichever is later.	
Penalty Clause	Tender Terms Prevail
Penalty at the rate of Rs per day for short falling of 95% uptime guarantee. If the	
machine lies non functional for a period of more than two weekscontinuously, the samepenalty	,
will be imposed even if 95% uptime clause is met with.	
Clause20.1 Taxes & Duties	Tender Terms Prevail
Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until delivery	
of the contracted goods to the purchaser	
Item No.6 High End Ultra sound machine	
6. The system should have minimum 192 hardware channels and 80000 or more digitally	Tender terms prevail.
processing channels. Original manufacturing letter to be attached for confirming above channe	
numbers	
7. The system should perform up to 1000 frames/sec. or more. Also system should suppor	Tender terms prevail.
transducers of frequency range from 1-18 Mhz.	
	T OT 1
17. Up to <b>10X digital zoom</b> should be available, on live, frozen, cine, dual screen images	
Preserves full image resolution within the zoom ROI. HD zoom should be available	images-Preserves full image resolution within the zoom ROI. HD zoom should
10 771 0 4 1 111 77177777 4 1	be available
18. The System should have THREE activetransducer ports or more.	Tender terms prevail.
36. Monitor: i. Monitor should be high resolution, 21" (inch) or more Back Lit LED/ LCD Monitor	Tender terms prevail.
with 1080 x1080 matrix or more. Please specify resolution range with IPS technology.	
37.i) The freely programmable, mode-sensitive <b>10" or more</b> Color Touch Command Screen which	The freely programmable, mode-sensitive <b>9" or more</b> Color Touch Command
enables direct access to all basic and advanced system controls.	Screen which enables direct access to all basic and advanced system controls.
<u> </u>	-
38. Data Management: i) A large-capacity minimum 1TB HDD	Tender terms prevail.
should be provided in the standard configuration, facilitating efficient management of acquired	
images. Images can be viewed in Image Review Mode. Also cine memory of more than 2000 frames	
should be available.	
40. (i) Convex Probe with Band width of 1 MHz to 6 MHz OR MORE with Biopsy Guide for	1
Abdominal applications and Support for Strain and Shear wave Elastography and Fusion with	
Navigation Application.	
(ii) Convex volume probe 2-7MHz with 4D package.(including multislice ,MPR, curved VOI	
fetalstic)	curved VOI)

Adequate A.C as per room and machine requirement Almirah, bookrack and wall cabinet for storage purpose, revolving chairs and departmental books.  The vendorshould have at least 5 installations in Government/Corporate institution in India in last 5 years.  Tender terms prevail.  Tender terms prevail.  Tender terms prevail.  Tender terms prevail.
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Tender terms prevail.
Tender terms prevail.
Tender terms prevail.
SCC clause of the tender document terms shall prevail.
Box all Years 1. Co.
For all items 1 -6:-
Intime warranty shall be 05% instead of 00%
Uptime warranty shall be 95% instead of 98%
Fo

X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.	
For major	
equipment the penalty will be as under:	
i) Liner Accelerator -Rs. 25,000/- per day, 8 hours working basis.	
ii) Brachytherapy –Rs. 10,000/- per day, (8 hours working basis).	
iii) CT Simulator -Rs. 10,000/- per day, (8 hours working basis).	
iv) CT Scan, Gamma Camera -Rs. 10,000/- per day, (8 hours working basis).	
v) MRI, PET -Rs. 15,000/- per day, (8 hours working basis).	
vi) X -ray, MMG -Rs 2,000/- per day, (8 hours working basis).	
Page No. 44	Tender Terms Prevail
b) For Imported goods directly from foreign:	
Delivery period for Radiology, Radio therapy Equipments: 90 days from date of Notification of	
Award to delivery at consignee site. The date of delivery will be the date of delivery at consignee	
site.	
c) Installation and commissioning period Radiology, Radio therapy Equipments:-90 days for	
receipt of the stores/ goods delivery at site or 90 days from handing over the site or instruction	
for installation, whichever is later.	
15- Warranty 15.4 / 15.6	Tender Terms Prevail
15.4 Upon receipt of such notice, the supplier shall, within 8 hours on a 24(hrs) X 7 (days) X 365	
(days) basis respond to take action to repair or replace the defective goods or parts thereof, free of	
cost, at the ultimate destination. The supplier shall take over the replaced parts/goods after	
providing their replacements and no claim, whatsoever shall lie on the purchaser for such	
replaced parts/goods thereafter. The penalty clause for non-rectification will be applicable as per	
tender conditions <b>15.6</b> If the supplier, having been notified, fails to respond to take action to	
repair or replace the defect(s) within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the	
purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk	
and expense of the supplier and without prejudice to other contractual rights and remedies,	
which the purchaser may have against the supplier- Ref: Page 33 of TE Document	
Page No. 43 Point No.9	Tender Terms Prevail
Reimbursement of Custom Duty: CNCI deserves for customs duty exemption through	
<b>DSIR certificate.</b> The custom duty amount as mentioned in the price schedule section -XI	
(B)(convert in INR at the rate of exchange mentioned in bill of entry) will compared with the actual	
total custom duty amount levied by custom department and reimbursed to the supplier as per	
below:	
a. If the custom duty amount as mentioned in the price schedule section -XI (B) is equal to the	
actual total custom duty amount levied by custom department, the actual total custom duty	
·	

amount levied by custom department shall be prevailed and reimbursed to the supplier in INR accordingly.

b. If the custom duty amount as mentioned in the price schedule section -XI (B) is more than actual total custom duty amount levied by custom department, the actual total custom duty amount levied by custom department shall be prevailed and reimbursed to the supplier in INR accordingly.

c. If the custom duty amount as mentioned in the price schedule section -XI (B) is less than the actual total custom duty amount levied by custom department, the custom duty amount as mentioned in the price schedule section -XI (B) shall be prevail and reimbursed to the supplier at rate of exchange rate mentioned on the bill of entry in INR accordingly.