

Amendment No. 1**Sub: Amendment to the referred tender enquiry****Ref.: Tender Enquiry HITES/PCD/PMSSY-III/25/RTP/18-19 dated 10/04/2018**

The following changes are being incorporated in the above referred Tender Enquiry Document.

**Section VII
Technical Specification**Schedule No. 01
Advanced High Energy Linear Accelerator (Rfx no. 3000002696)

Sl. No.	Tender Page & Para	TENDER SPECIFICATION	Read as
1	Page 46 Para 16	Portal Imaging : Should be able to take images at any Gantry angles with variable X-Y-Z movements, Robotics Arm with remote control.	Portal Imaging : Should be able to take images at any Gantry angles with variable X-Y movements , Robotics Arm with remote control.
3	Page 47 Para 19	Networking: An open Record & Verify System latest version (HW & SW) for Linear accelerators	Networking : An open Record & Verify System latest version (HW & SW) for Linear accelerator. Workstation - 2 nos. should be provided
4	Page 47 Para 19	Networking: All required interfaces should be provided.	Networking: All required interfaces & connectivity should be provided, for different modalities, e.g. CT Simulator, HDR Brachytherapy
6	Page 48 Para 24	Treatment Planning System Server (backup/restore) – latest HW/SW and upgradable for next 10 yrs.	Treatment Planning System Server (backup/restore) – latest HW/SW and update for next 10 yrs.
7	Page 48 Para 29	Dosimetry and QA RADIATION THERAPY BEAM ANALYZER The detector unit should be driven by stepper motor and step length should be adjustable in steps of mm.	Dosimetry and QA RADIATION THERAPY BEAM ANALYZER The detector unit should be driven by stepper motor and step length should be adjustable in steps of 5 mm or better.
8	Page 59-60 Para D	As per prebid discussion: FINANCIAL BID (specify separately for desirable items): Quote separately for equipment, R&V and MLC	To be deleted.
9	Page 59-60 Para D	FINANCIAL BID (specify separately for desirable items): Up-gradation of equipment	FINANCIAL BID (specify separately for desirable items): Update of equipment
10	Page 60	Software and Hardware : All software and hardware up-gradations should be free of	Software and Hardware : All software and hardware update should be free of cost for

Sl. No.	Tender Page & Para	TENDER SPECIFICATION	Read as
	Para N	cost for the purchased functions and there shall be PC hardware refresh done in 4th and 8th year respectively.	the purchased functions and there shall be PC hardware refresh done in 4th and 8th year respectively.

Schedule No. 02
Low Energy Linear Accelerator (Rfx no. 3000002697)

Sl. No	Tender Page & Para	TENDER SPECIFICATION	Read as
1	Page 63 Para 18	Networking All required interfaces should be provided.	Networking: All required interfaces & connectivity should be provided, for different modalities, e.g. CT Simulator, HDR Brachytherapy
4	Page 64 Para 30	UPS: Online UPS to support LINAC system, Workstations , Chiller , for minimum of 30 minutes.	May be ammended as : UPS: Online UPS (Tata libert ,APC,Hitachi,Emerson) to support LINAC system, Workstations , Chiller , for minimum of 30 minutes.
20	Page 73 Para J	as per prebid discussion: TRAINING OF STAFF Radiation Oncologist : Medical Physicist : Radiotherapy technologist :	TRAINING OF STAFF Radiation Oncologist : 1 Medical Physicist : 1 Radiotherapy technologist : 2 for a two weeks in India, where such facility is available. Additional onsite training for 15 days
21		As per prebid discussion:	Added para: UPTIME GUARANTEE (95 %) / PENALTY CLAUSE Penalty For the whole system: INR 20,000 per day for downtime exceeding 5% on 365 days a year x 24 hours a day x 7 days a week

Schedule No. 03
High Dose Rate Brachytherapy System (Rfx no. 3000002698)

Sl. No	Tender Page & Para	TENDER SPECIFICATION	Read as
1	Page 75 Para 1.10	The Source head should have adequate shielding and its height should be adjustable.	The Source head should have adequate shielding. The distance from the couch to the head should be adjustable.
2	Page 76 Para 5.3	Applicators for HDR Unit Gynaecological application templates -2 set each (2 sets Syed-Neplet and 2 Sets of MUPIT with all required accessories)	Applicators for HDR Unit Gynaecological application templates - 4 set (4 sets Syed-Neplet or 4 Sets of MUPIT with all required accessories)
3	Page 76 Para 5.6	As per prebid discussion: Applicators for HDR Unit Esophagus applicator – 6 sets	Applicators for HDR Unit Esophagus applicator – 2 sets (8 Fr & 6 Fr - 1 set each)
4	Page 76 Para 5.10	As per prebid discussion: Applicators for HDR Unit All kinds of x-ray dummy markers (two sets) for the applicators supplied (wherever relevant). Interstitial implant plastic tubes – total 1000 numbers and Interstitial implant plastic needles- total 50 numbers and interstitial implant stainless steel applicators-20 numbers.	All kinds of x-ray dummy markers (two sets) for the applicators supplied (wherever relevant). Interstitial implant plastic tubes – total 1000 numbers and Interstitial implant plastic needles- 50 numbers each (20 G & 12 G) and interstitial implant stainless steel applicators-20 numbers.
5	Page 76 Para 5.12	As per prebid discussion: Applicators for HDR Unit Vienna Applicator or its equivalent for combined interstitial and intracavitary application-2 sets	To be deleted
7	Page 76 Para 5.14	As per prebid discussion: Applicators for HDR Unit Vendor should provide one extra treatment control console system which will be compatible with offered HDR treatment machine for the purpose of performing intra-operative HDR brachytherapy treatment.	To be deleted

Sl. No	Tender Page & Para	TENDER SPECIFICATION	Read as
8	Page 76 Para 5.15	As per prebid discussion: Applicators for HDR Unit Vendor should quote treatment planning system for intraoperative real-time ultrasound guided prostate brachytherapy treatment including inverse planning capability.	To be deleted
9	Page 76 Para 5.16	As per prebid discussion: Applicators for HDR Unit Vendor should quote an ultrasound system for performing for intraoperative real-time ultrasound guided prostate brachytherapy treatment along with compatible probes.(Probes for Prostrate , breast and abdomen)	To be deleted
10		As per prebid discussion:	Added para: UPTIME GUARANTEE (95 %) / PENALTY CLAUSE Penalty For the whole system: INR 5,000 per day for downtime exceeding 5% on 365 days a year x 24 hours a day x 7 days a week
11		As per prebid discussion:	TRAINING OF STAFF Radiation Oncologist : 1 Medical Physicist : 1 Radiotherapy technologist : 1 for a two weeks in India, where such facility is available. Additional onsite training for 15 days

Schedule No. 04
CT Simulator System-16 Slice (Rfx no. 3000002699)

Sl. No	Tender Page & Para	TENDER SPECIFICATION	Read as
1	Page 81 Para 3.3.4	X-ray Tube: The x-ray tube should have anode heat storage capacity of 5 MHU or more.	X-ray Tube: The x-ray tube should have anode heat storage capacity of 8 MHU or more or direct cooling.
2	Page 82 Para	CT scanning parameters Prospective and Retrospective respiratory compensated/gated CT to generate 4D	CT scanning parameters Prospective and Retrospective respiratory compensated/gated CT to generate 4D

Sl. No	Tender Page & Para	TENDER SPECIFICATION	Read as
	6.10	datasets must be compatible with all commercially available hardware and software for motion management to localize the tumour in motion. Specify the details. Required software and hardware to generate/acquire 4D CT imaging should be provided. Also required compatible hardware with commercially available LINAC based image acquisition solutions.	datasets must be compatible with all commercially available hardware and software for motion management to localize the tumour in motion. Specify the details. Required software and hardware to generate/acquire 4D CT imaging should be provided. Also required compatible hardware with commercially available LINAC based image acquisition solutions. Hardware will not be taken for L1 calculation. Hardware is optional. (Price for hardware should be quoted)
5	Page 83 Para 10.4	Image Quality CT number accuracy must be better than +4HU for water and +10 HU for air. All necessary phantoms to check the spatial resolution of the scanner should be provided. CATPHAN with appropriate module should be supplied.	Image Quality CT number accuracy must be better than +4HU for water and +10 HU for air. All necessary phantoms to check the spatial resolution of the scanner should be provided. CATPHAN 500 with appropriate module should be supplied.
11	Page 86 Para 20.6	Equipment Warranty and Service Facilities Factory trained service engineer/Applications specialists should be available in Delhi to look after the installation and maintenance of the system without patient treatment interruption.	Equipment Warranty and Service Facilities Factory trained service engineer/Applications specialists should be available across India to look after the installation and maintenance of the system without patient treatment interruption.
	Page 86 Para 21.1	As per prebid discussion: Standards, Safety and Training Equipment standard and safety should comply with the national regulatory AERB guidelines and offered model should have AERB type approval and NOC.	Standards, Safety and Training Equipment standard and safety should comply with the national regulatory AERB guidelines and offered model should have AERB type approval or NOC.
12	Page 86 Para 21.3	Standards, Safety and Training The vendor should provide comprehensive training on CT-Simulator in a well advanced center where the system is in clinical use , for two persons (one for Radiation Oncologist, one for Medical Physicist).The training period should be at least for One week.	Standards, Safety and Training The vendor should provide comprehensive training on CT-Simulator in a well advanced center in the country where the system is in clinical use , for two persons (one for Radiation Oncologist, one for Medical Physicist).The training period should be at least for One week.
14	Page 86 Para 23.7 & 23.12	Scope of Work for Site Modification: General Requirements Rate quoted for Site modification work, Furniture like desks, chairs, shelves etc; and the price quoted for 10 TR HVAC is included for L1 calculation of the bids.	Rate quoted for Site modification work, Furniture like desks, chairs, shelves etc; and the price quoted for 16 TR HVAC is included for L1 calculation of the bids.

Sl. No	Tender Page & Para	TENDER SPECIFICATION	Read as
		AIR CONDITIONING WORKs: (16 TR HVAC: 10 TR + 6 TR backup)	

All other contents of the tender enquiry including terms & conditions remain unaltered.

Note:

- i. Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids**