

Schedule No. 01 - State of Art Linear Accelerator (Rfx no. 3000002258)

Sl. No	Tender Page & Para	TENDER SPECIFICATION	NAME OF THE FIRM	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION
1	Page 30 Para 8.8	8. Inspection, Testing and Quality Control 8.8 Principal/ Foreign supplier shall also have the equipment inspected by recognized/ reputed agency like SGS, Lloyd, Bureau Veritas, TÜV etc. prior to dispatch at the supplier's cost and furnish necessary certificate from the said agency in support of their claim.	Varian Medical Systems	We would like to add that the Pre-Inspection by the Third-party vendors/inspectors is not possible from our end. Hence, we urge to remove/delete the same from the tender document. Making this mandatory would make Varian unable to participate in the tender. The committee has suggested that they would revert after internal discussions.	clarified during pre-bid as : Pre-dispatch inspection , prior to dispatch of goods from vendor's warehouse. This does not involve any inspection of manufacturing / design aspects of the system.
2	Page 44 Para 2.2.1	2.2 Dose Rate and Beam Stability 2.2.1 The maximum dose rate for routine clinical applications shall equal at least 600 monitor units (MU)/min or more for a 10 x 10 cm field at the depth of maximum buildup dose at a TSD of 100 cm for both photon beams.	Elekta	Requested Change The maximum dose rate for routine clinical applications shall equal at least 500 monitor units (MU)/min or more for a 10 x 10 cm field at the depth of maximum buildup dose at a TSD of 100 cm for all the three photon beams. Reason: Elekta cannot provide more than 500 MU/min for 6 & 10 MV	2.2 Dose Rate and Beam Stability 2.2.1 The maximum dose rate for routine clinical applications shall equal at least 500 monitor units (MU)/min or more for a 10 x 10 cm field at the depth of maximum buildup dose at a TSD of 100 cm for all the three photon beams.
3	Page 45 Para 2.5	2.5 Beam Quality Index: Photon beam energy (MV) Quality Index (QI) 6 MV Specify 15 MV Specify	Elekta	Requested change Kindly include 10MV : Specify	2.5 Beam Quality Index: Photon beam energy (MV) Quality Index (QI) 6 MV Specify 10 MV Specify 15 MV Specify
4	Page 46 Para 3.1	3.1 Electron Beam Energies Five clinically useful electron beam energies shall be provided. The lowest energy shall be 4 or 6 MeV and the highest energy shall be 15 MeV or above. Energy shall be specified as the most probable energy (Ep) of the electron energy spectrum at 100 cm from the accelerator exit window.	Elekta	Requested change Five clinically useful electron beam energies shall be provided. The lowest energy shall be 4 or 6 MeV and the highest energy shall be 15 MeV or above. Reason : Elekta cannot provide more than 15 MeV electron energy.	3.1 Electron Beam Energies Five clinically useful electron beam energies shall be provided. The lowest energy shall be 4 or 6 MeV and the highest energy shall be 15 MeV or above. Energy shall be specified as the most probable energy (Ep) of the electron energy spectrum at 100 cm from the accelerator exit window.
5	Page 47 Para 3.6	3.6 Total Skin Electron Therapy A high dose rate electron mode for total skin electron therapy must be provided with a minimum dose rate of 900 MU/min or above for the 4 or 6 MeV electron beam.	Elekta	Requested change Total Skin Electron Therapy A high dose rate electron mode for total skin electron therapy must be provided with a minimum dose rate of 3000 MU/min or above for the 4 or 6 MeV electron beam. Reason: High Dose Rate required for total skin electron therapy	no change considered.
6	Page 50 Para 6.5.14	6.5 Treatment Table / Couch 6.5.19 Two extra spare control pendants shall be provided.	Elekta	Requested change Kindly delete this clause as this may not be required. Reason : Warranty and CMC covers hand control pendant as well.	Deleted
7	Page 51 Para 6.6.14	6.6 Electronic Portal Imaging System 6.6.14 Vendor should provide INRT and VMAT portal dosimetry verification system of EPID for all available energies including FFF beams.	Varian Medical Systems	To be clarified	
8			Elekta	Requested Change Kindly delete this clause as this is not available with ELEKTA	clarified during pre-bid meeting.

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9	Page 51 Para 6.7.1	6.7 Patient Alignment system 6.7.1 Vendor is required to supply and install 4 sets green laser alignment systems. A separate back pointer laser alignment system shall be provided and installed onto the linear accelerator on offer. All laser products shall comply with respective code of IEC safety of laser products.	Elekta	Requested change Kindly clarify whether it is one set of 4 green lasers or 4 sets of 4 green lasers?	6.7 Patient Alignment system 6.7.1 Vendor is required to supply and install One set of 4-green laser alignment systems. A separate back pointer laser alignment system shall be provided and installed onto the linear accelerator on offer. All laser products shall comply with respective code of IEC safety of laser products.
10			Varian Medical Systems	To be clarified It has been mutually agreed that the condition of 2 sets of lasers would be deleted and would be done away with.	Deleted
11	Page 51 Para 6.7.2	6.7 Patient Alignment system 6.7.2 Two spare sets of green lasers shall be provided.	Elekta	Request change Kindly clarify whether it is two spare sets of 4 green lasers or 2 green lasers only?	
12		6.10 Wedge Systems 6.10.1 Provision of either a set of standard physical wedge filters with wedge angles 15°, 30°, 45° and 60° 6.10.2 Provision of virtual or dynamic programmable wedge fields of generating variable wedge angles starting from 1.0° up to 60 6.10.3 The programmable wedge fields shall provide a range of wedged fields starting at least 4cm up to 30 cm at 100 cm TSD 6.10.4 Provision of a statistics log for tracking the accuracy of the programmable wedge fields' profiles 6.10.5 Provide dosimetric and QA equipments for dynamic wedge dosimetry and QA tests 6.10.6 Provision for automatic, motorized, universal wedge system for variable wedge angles from 0° up to 60.		It has been agreed that there is a omission of word "or" in the clause stated and the necessary available wedge angles from 0 – 60 degrees can be provided.	6.10 Wedge Systems 6.10.1 Provision of EITHER a set of standard physical wedge filters with wedge angles 15°, 30°, 45° and 60° 6.10.2 Provision of virtual or dynamic programmable wedge fields of generating wedge angles. All available range of wedge angles (15 deg to 60 deg) to be provided. 6.10.3 The programmable wedge fields shall provide a range of wedged fields starting at least 4cm up to 30 cm at 100 cm TSD 6.10.4 Provision of a statistics log for tracking the accuracy of the programmable wedge fields' profiles OR 6.10.5 Provision for automatic, motorized, universal wedge system for variable wedge angles from 0° up to 60.
13	Page 53 Para 6.10.1		Varian Medical Systems		
14	Page 53 Para 6.10.2	6.10 Wedge Systems 6.10.2 Provision of virtual or dynamic programmable wedge fields of generating variable wedge angles starting from 1.0° up to 60	Varian Medical Systems	To be clarified	clarified as above.
15		8. Image-Guided Radiotherapy System 8.2 A 3D volume CT image data is reconstructed from a series of 2D projection images acquired as the linear accelerator gantry is rotated. This image data can be used for verification of patient position and target motion. This shall have flexibility in providing full or partial gantry rotations, with the opportunity to select a choice of gantry rotation speeds.	Varian Medical Systems	To be clarified	8. Image-Guided Radiotherapy System 8.2 : A 3D volume CT image data is reconstructed from a series of 2D projection images acquired as the linear accelerator gantry is rotated. This image data can be used for verification of patient position and target motion. This shall have flexibility in providing full or partial gantry rotations.
16	Page 54 Para 8.2	This shall have flexibility in providing full or partial gantry rotations, with the opportunity to select a choice of gantry rotation speeds.	Varian Medical Systems	It has been agreed the said clause will be deleted as the Varian system automatically adjusts itself for an optimum image quality & there is no control process of controlling the gantry speed.	

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17	Page 55-56 Para 10.1.a	10. Four-Dimensional and Adaptive Radiation Therapy Systems 10.1. The vendor should provide advanced and latest model of optical surface tracking and gating solutions for entire four-dimensional (4D) treatment chain from imaging (4DCT) to (4D) treatment delivery. The system should consist of Advanced Laser based-optical Scanning, 4DCT acquisition and Gating Systems with following features; a. The system should be of non-invasive, marker-free i.e. no markers or devices will need to be placed on the patient or on the couch.	Varian Medical Systems	To be clarified	clarified during pre-bid meeting.
18	Page 56 Para 10.2	10.2. The vendor should provide latest model of the stand-alone deformable image registration system with following features;	Elekta	We request you to kindly change deformable registration to contour based deformable registration only and delete dose based deformation from the specification, since Elekta cannot provide dose based deformation.	No change clarified during pre-bid meeting as "The stand-alone deformable image registration system is mandatory for adaptive radiotherapy planning."
19	Page 56 Para 10.2.d	10.2. d. System should support for DICOM / DICOM RT Import: CT, CBCT, PET CT, PET, MR, SPECT and diffusion weighted MRI (DWI), including cine/4D modes for all relevant imaging types.	Varian Medical Systems	To be clarified	clarified during pre-bid meeting.
20	Page 57 Para 10.3	10.3. The vendor should provide CBCT Electron density and image quality phantom specifically designed for CBCT with increased HU value for adaptive radiotherapy commissioning and QA of CBCT image quality.	Varian Medical Systems	To be clarified	clarified during pre-bid meeting.
21	Page 57 Para i	i. Should have tools to reduce artifacts/noise from the images, e.g. attenuation correction, HU replacement in a user contoured or automatically defined area.	Varian Medical Systems	To be clarified	clarified during pre-bid meeting.
22				Export quality chiller, to be clarified	
23	Page 57 Para 11.2	11.2 Water Chiller System 10.2.1 The chiller system shall be provided along with the machine by the principals. No local system shall be accepted.	Varian Medical Systems	We will not be able to participate with this specification. Varian offers high quality Imported quality chillers, supplied from within India for better serviceability and uptime expectations. We request you to delete this clause of and include/add "Imported/ Indigenized export quality" chiller. Additionally, please note that the complete equipment will be covered under the CMC and hence serviceability of the (local) chiller provided with the equipment is not an issue if the chiller is procured from India. Alternatively, it was agreed that the quality norms for the chiller will be specified by the committee.	11.2 Water Chiller System 10.2.1 The chiller system provided shall conform to international class / standards.
24	Page 58 Para 1.1	1. General Requirements 1.1 The system should be integrated with CT-Simulator, MR/PET and linear accelerators capable of dynamic sliding window IMRT and VMAT.	Varian Medical Systems	To be clarified	1. General Requirements 1.1 The system should be integrated and connected to CT-Simulator, MR/PET and linear accelerators capable of dynamic sliding window IMRT and VMAT.

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25	Page 58 Para 1.4	1. General Requirements 1.4 Five treatment planning workstation with calculation licenses for 3D conformal planning and IMRT and VMAT planning capability and additional Five workstations for enabling contouring and virtual simulation with individual licenses should be provided. Vendor should provide the each unit price of both TPS and workstations offered.	Elekta	Requested change 2 TPS server with 128 GB RAM memory with Five treatment planning workstation with calculation licenses for 3D conformal planning and IMRT and VMAT planning capability and additional Five workstations for enabling contouring and virtual simulation with individual licenses should be provided. Vendor should provide the each unit price of both TPS and workstations offered. There shall be atleast 13 TB storage for plan storage in addition to OIS storage. Reason : This specification is not talking about TPS server and also not explaining about the central storage requirement.	1. General Requirements 1.4 2 TPS server with 128 GB RAM memory with Five treatment planning workstations with calculation licenses for 3D conformal planning and IMRT and VMAT planning capability and additional Five workstations for enabling contouring and virtual simulation with individual licenses should be provided. There shall be atleast 10 TB storage for plan storage in addition to OIS storage. Vendor should provide the each unit price of both TPS and workstations offered.
26	Page 59 Para 2.7	2. Three-dimensional (3D) conformal Planning: 2.7 TCP and NTCP calculations should be provided	Elekta	Requested change EUD or TCP and NTCP calculations should be provided Reason: Elekta can provide only EUD.	2. Three-dimensional (3D) conformal Planning: 2.7 EUD or TCP and NTCP calculations should be provided
27	Page 60 Para 5	5. Contouring	Elekta	Please add Clause 5.9 as follows: RTG template plan library or rapid plan shall be offered for quick planning. Reason : Helps in quick planning.	no change considered.
28	Page 60 Para 6.13	6. Dose Planning 6.13 Automatic optimization of compensators.	Elekta	Kindly delete Reason: compensators are outdated after MLC introduction and the interface is not available with Monaco.	Deleted
29	Page 61 Para 8.1	8. Dose Calculation Algorithms 8.1 TPS should include 3-D Pencil Beam, Anisotropic Analytic, Convolution and Superposition algorithms for dose calculations of 3-D external beam applications with electron and photon beams. Monte Carlo or equivalent (ACURROS-XB) calculations algorithms for Photon & Electron should be provided.	Elekta	Requested change TPS should include any one of 3-D Pencil Beam, Anisotropic Analytic, Collapsed Cone Convolution (CCC) algorithms for dose calculations of 3-D external beam applications with electron and photon beams. Monte Carlo or equivalent (ACURROS-XB) calculations algorithms for Photon & Electron should be provided. Reason : Elekta provides CCC algorithms.	8. Dose Calculation Algorithms 8.1 TPS should include any of the following algorithms: Electronbeam: Monte Carlo or equivalent, and ePB or equivalent Photon beam : Monte Carlo or equivalent (ACURROS-XB) calculations algorithms for Photon & Electron should be provided, and AAA/ccc /or equivalent
30	Page 63 Para 11.3	11. Four-dimensional (4D) Planning and Adaptive Re-Planning System- 11.3 Specialized contouring tools should offer to make dose planning in 4D.	Varian Medical Systems	To be clarified	11. Four-dimensional (4D) Planning 11.3 Specialized contouring tools should offer to make dose planning in 4D.
31	Page 63 Para 12	Quality Assurance Software Systems	Varian Medical Systems	It has been agreed that the 3rd party software needs to be provided.	clarified during pre-bid meeting : 3rd party software needs to be provided
32	Page 63 Para 12	Quality Assurance Software Systems for testing the performance of Image registration and fusion, auto-segmentation, deformable image registration for 4D dose calculations and adaptive planning of interfraction dose accumulation capability should be provided.	Varian Medical Systems	To be clarified	clarified during pre-bid meeting

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33	Page 64 Para III.2	(III) ONCOLOGY INFORMATION & RECORD AND VERIFY SYSTEM The system shall provide the following functions: Record and Review Patient Diagnoses; capable of recording the diagnosis as per the ICD C and ICD 10 system and complete ICD C and ICD 10 codes should be available in the system without requiring extra input. Plan a course of treatment in advance so that treatments are readily delivered when the patient arrives; Write RT prescriptions that detail treatment techniques, fractions, and dose; Define treatment fields; Link setup fields and notes to treatment fields; Setup notes should include photos that show how to set up the patient; Track dose to specific sites; Define site breakpoints with instructions that appear when the breakpoint will be exceeded; Store treatment plan information to avoid redundant and time-consuming data entry.	Elekta	Kindly add "There shall be 6 Radiation oncologists license with same no. of workstations".	(III) ONCOLOGY INFORMATION & RECORD AND VERIFY SYSTEM The system shall provide the following functions: Record and Review Patient Diagnoses; capable of recording the diagnosis as per the ICD C and ICD 10 system and complete ICD C and ICD 10 codes should be available in the system without requiring extra input. Plan a course of treatment in advance so that treatments are readily delivered when the patient arrives; Write RT prescriptions that detail treatment techniques, fractions, and dose; Define treatment fields; Link setup fields and notes to treatment fields; Setup notes should include photos that show how to set up the patient; Track dose to specific sites; Define site breakpoints with instructions that appear when the breakpoint will be exceeded; Store treatment plan information to avoid redundant and time-consuming data entry. Vendor should provide the each unit price of OIS workstation offered.
34	Page 64 Para III.8	(III) ONCOLOGY INFORMATION & RECORD AND VERIFY SYSTEM A daily patient schedule and time management schedule must be capable of being displayed on the computer monitor at the record and verify workstation. This schedule shall include, at a minimum, the scheduled treatment time for each patient, the patient's identification number and the patient's name. The schedule shall be used to select a patient for treatment on the accelerator.	Elekta	Kindly add "There shall be 6 Scheduling license with same no. of workstations".	no change
35	Page 66 Para III.13	(III) ONCOLOGY INFORMATION & RECORD AND VERIFY SYSTEM The Hardware should consist of the following: ZNO.S, separate, but fully integrated servers, one each for data management and image management with back up with 4TB or more capacity or more to handle our busy department workload. In additional 5 Image Workstations for Review and Approval; a networked color image DICOM laser printer; capability for high speed internet connectivity for Online Service support. Vendor should provide licenses in order to use five users simultaneously.	Elekta	Requested change The Hardware should consist of the following: 1 integrated server for data management and image management with back up with 4TB or more capacity or more to handle our busy department workload. In additional 5 Image Workstations for offline Review and Approval shall be provided; Vendor should provide offline review licenses in order for simultaneous five users. a networked color image DICOM laser printer; capability for high speed internet connectivity for Online Service support. Reason : Now a days advanced integrated data and image servers are available.	16.13 The Hardware should consist of the following: One integrated server for data management and image management with back up with 8 TB or more capacity to handle busy department workload. Additional 10 Image Workstations for Review and Approval; a networked color image DICOM laser printer; capability for high speed internet connectivity for Online Service support. Vendor should provide licenses in order to use ten user simultaneously.
36	Page 66 Para III.16.iii	(III) ONCOLOGY INFORMATION & RECORD AND VERIFY SYSTEM 16. Safety Standards and Training iii. The vendor should provide comprehensive training on TPS in international center of repute where the offered system is extensively in use. Training should be provided for one Radiation Oncologist and one Medical Physicist. The training period should be at least for two weeks.	Elekta	Requested change The vendor should provide comprehensive training on TPS in international center of repute where the offered system is extensively in use. Training should be provided for one Radiation Oncologist and one Medical Physicist. The training period should be at least for one week. Additionally one week class room training in India shall be provided for two medical physicists. Reason: International trainings comes with 1 working week only as a standard.	Deleted

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37	Page 66 Para 15.v	15. Equipment Warranty and Service Facilities v. During the warranty period, all the software updates and upgradation should be provided for free of charge.	Varian Medical Systems	We would be able to provide all the mandatory software updates during the period of warranty and CMC. Hence, it is requested to delete "upgradation" from the clause. If upgrade is desired then to make it uniform & compatible, we request you to add all the computer hardware and software to be mandatorily replaced and refreshed for the latest that would be prevalent at the end of the 5th year, post installation.	15. Equipment Warranty and Service Facilities v. During the warranty period, all the software updates should be provided for free of charge.
38	Page 66 Para 17.i	17. General Terms & Conditions i. The optional items, if any will also be considered for L1 calculations.	Elekta	Kindly delete Clause 17(i) at page no. 66 because options can be different item / product from different vendors which are not directly comparable.	no change
39				HVAC tonnage mentioned in tender is 15 TR, which is very less, we would be requiring at least 30 TR for each bunker which covers the LINAC room, Control Console and UPS Room. To be clarified	
40	Page 68	AIR CONDITIONING WORKS: (15 TR HVAC)	Varian Medical Systems	Machine performance will depend heavily on the air conditioner. Therefore, it is suggested to have a 100 % back up for the 15 TR AC required per LINAC unit. Hence, it has been suggested to increase the capacity of HVAC tonnage to 30 TR in order to include the bunkers as well as the LINAC room, console as well as the UPS room. We suggest to increase the tonnage. The committee has agreed to revert on the same after checking.	AIR CONDITIONING WORKS: (15 TR + 15 TR backup : Total 30 TR HVAC)
41	Page 72 Para 13.1	13. Equipment Compliance with Standards and Safety 13.1 Should be ISO, IEC, USA-FDA and/or European CE certified product.	Elekta	Requested change Should be ISO, IEC, USA-FDA and European CE certified product. Reason: FDA ensures that high end equipment is offered to this all the important NCI.	no change
42	Page 72 Para 15.1	15. General Terms & Condition 15.1 The optional items quoted, if any, will also be considered for L1 calculation.	Elekta	Kindly delete Clause 15.1 at page no. 72 for the above stated reasons.	no change
43	Page 73 Para 15.4 & 15.5	Penalty clause Uptime guarantee	Varian Medical Systems	It has been suggested to de link the penalty & the uptime guarantee clause from monetary terms. Hence, it has been agreed that Varian will extend the shortfall two times beyond 95% instead of 50,000/- penalty per day.	no change
44	Page 74	AERB approved Site and Facility Layout plan	Varian Medical Systems	Require AERB approved drawings in AUTOCAD	Clarified as : The site layout may be obtained from NC Jhajjar project office at AIIMS, Room no. .

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45		Suggested by Bidder	Varian Medical Systems	How much is the Warranty of Site Modification works? Nothing specified in the tender, generally it is 1 year, please confirm. To be clarified	Clarified as : " the warranty for Site Modification works is for 5 years"
46		Suggested by Bidder	Elekta	Turkey Kindly add "The required Power for machines will be terminated by Hospital in UPS room in Proper switch and panel". Reason: To define user responsibility clearly.	clarified during pre-bid meeting
47		Suggested by Bidder	Varian Medical Systems	Under whose scope will be the Maze door supply and erection work? To be clarified	clarified during pre-bid meeting: " Maze door supply and commissioning is vendor responsibility".
48				It has been concluded that the scope of construction of the maze door and erection work comes under the purview of the supplier.	
49		Suggested by Bidder	Varian Medical Systems	Warranty & CMC Conditions. There are a plethora of non-varian items which form part of turnkey. Hence, we hereby submit to only include HVAC under standard warranty. Varian India would not be able to maintain the non-Varian items after the expiry of the one year warranty period except HVAC.	no change
50	Serial no. 16 (page 66) Serial no. 14 (page 72)	High Energy Linear Accelerator- (a) Oncology Information & Record and Verify System; Serial no. 16 (page 66)- Training for One Radiation Oncologist & One Medical Physicist; (b) Serial no. 14 (page 72): Training for Nine people (four Radiation Oncologist, Three Medical Physicists and Two Radiation Technologists).	Dr Alay Gupta, Consultant Radiotherapy & DGHS Nominee M&E items NCI-AIIMS	In all Eleven professionals have been proposed for training abroad for two weeks. The standard practice adopted by most of the Government organisations is to send two Radiation Oncologist and two Medical Physicists. Sending Nine or Eleven professionals abroad is likely to hit the organisation's work efficiency and would increase the Government cost of procurement.	the paragraphs " High Energy Linear Accelerator- (a) Oncology Information & Record and Verify System; Serial no. 16 (page 66)- Training for One Radiation Oncologist and One Medical Physicist; (b) Serial no. 14 (page 72): Training for Nine people (four Radiation Oncologist, Three Medical Physicists and Two Radiation Technologists). " to be replaced as below: Comprehensive Training for LINAC, TPS & OIS shall be provided to 6 persons (2 Radiation Oncologists, 2 Medical Physicists, 2 radiotherapy Technologists) in advanced centre where these equipment are already in clinical use / training facility for a period of 15 days.
		14. Staff Training and Documentation 14.1 The vendor should provide comprehensive training on Linear Accelerator, Treatment Planning in a well advanced center in any developed country for nine persons (four for Radiation Oncologist, three for Medical Physicist and two technologists). The training period should be at least for two weeks.	Elekta	Requested change The vendor should provide comprehensive training on Linear Accelerator, Treatment Planning in a well advanced center in any developed country for nine persons (four for Radiation Oncologist, three for Medical Physicist and two technologists). The training period should be at least for one week and one week training for the above personnel shall be provided in Indian clinic / class room training. Reason: International trainings comes with 1 working week only as a standard.	

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	Serial no. 9 (page 102): TLD System	Radiotherapy Dosimetry Equipment- Serial no. 9 (page 102): TLD System	Dr Ajay Gupta, Consultant Radiotherapy & DCHS Nominee M&E items NCI-AIIMS	The same needs to be reconsidered whether it is absolutely mandatory as per directions of AERB, Government of India. AERB stipulates that TLD Systems are primarily for research. The Cost- Benefit ratio of procuring TLD System needs to be reconsidered by the Technical Experts.	no change

Dr. V. S. Subramanian

25 Oct. 2000

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