ALL INDIA INSTITUE OF MEDICAL SCIENCE DR. B.R.A INSTITUTE OF ROTARY CANCER HOSPITAL (STORE SECTION)

Ansari Nagar, New Delhi-110029

Date: 10.00.2024

T.NO.IR-04/IRCH/R.O/2024-25(CPP)

10/9/24

CORRIGENDUM

Subject: Revised Tender Specifications & Extension of Bid Submission date - regarding

In the tender No. IR-04/IRCH/R.O/2024-25(CPP) (Tender ID: 2024_AIMSD_819144_1) for procurement of "Advanced High Energy Linear Accelerator System-02 Set on Buyback basis with Turnkey Work" for Department of Radiation Oncology, Dr. BRAIRCH, the following amendment has been made to the existing specifications which is enclosed at Corrigendum/Addendum -1. In addition, the following amendments have also been made on the date of opening and submission of bids:-

Particulars	Existing dates	Amended/extended dates
Bid Submission End Date & Time	14.09.2024 at 12:30 PM	28.09.2024 at 12:30 PM
Bid Opening Date & Time	16.09.2024 at 10:00 AM	30.09.2024 at 10:00 AM

The above is issued without prejudice to other specifications, dates and terms & conditions.

(Archna Sharma)

Sr. Stores Officer, DR. BRAIRCH, AIIMS

ALL INDIA INSTITUTE OF MEDICAL SCIENCES DR. B.R.A. INSITUTE OF ROTARY CANCER HOSPITAL

Ansari Nagar, Delhi – 110029

Date: 29.08.2024

Corrigendum/Addendum- 1

The following corrigendum/addendum is issued based on the inputs/suggestions received in the pre-bid meeting held on 09.08.2024 by the prospective firms and TSEC: -

S. No.	Page/ Clause	Tender Terms/Specifications	Amended As
1.	Page 63 of 109 Point 1	Equipment Warranty and Maintenance Contract: During the warranty period, all the software updates and upgradation should be provided free of cost.	Equipment Warranty and Maintenance Contract: During the warranty period, all software updates and upgradation of software should be provided without incurring any change in the supplied hardware configuration free of cost.
2.	Page 49; Part II	Part II: Required Delivery Schedule: b) For Imported goods directly from foreign: 180 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/ Airway bill. (Bidders may quote the earliest delivery period). Installation and Commissioning shall be done at the earliest but not later than 45 days of delivery of goods at site or date of handing over the site for installation, whichever is later. b) For Imported goods directly from foreign:	Delivery Time Period is 180 Days from the opening of the Letter of Credit (L.C.). + 30 Days for necessary approval taken from AERB.
Technical :	i-		
1	Page 55 of 109	Mechanical Features: The accuracy of mechanical isocenter shall be less than or equal to 1mm diameter for SRS/SBRT.	Mechanical Features: The accuracy of the mechanical isocenter for SRS/SBRT shall be ±1 mm in radius (i.e. ±2 mm in diameter).
2	Page 56 of 109 (v)	Electronic Portal Imaging System: Specify the system active imaging area, spatial and contrast resolution, image acquisition rate, lateral, longitudinal and vertical travel range	Electronic Portal Imaging System: Specify the system active imaging area, spatial and contrast resolution, image acquisition rate, lateral and longitudinal travel range.

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3	Page 57 of 109 (xi)	KVp multi meter for measuring KVp and tools for measuring focal spot size shall be provided.	kVp multi-meter that can measure peak tube voltage (kV), exposure time and tube current (mA) and exposure and Focal Spot Star Patterns (tool) for measuring focal spot size of cone-beam CT imaging unit shall be supplied.	
4	Page 59/109- S. No.5 (i) and (ii)	 (i) System shall have the capability of patient facial or otherfeatures and accessories recognition for safety. (ii) System shall have the capability of having in-built collision detection mechanism. 	 (i) System shall have the capability of patient identification for safety. Specify the patient identification method(s). (ii) Deleted 	
5	Page 59/109, Point 6	Vendor shall provide the patient immobilization open face masks system for 50 patients of cranial SRS treatments.	Vendor shall provide the patient immobilization open face masks system for 50 patients for Surface-Guided cranial SRS treatments.	
6	Page No 51 General Requirements of Equipment Safety and Standards. Point No -3	The offered linear accelerator model shall have all IEC compliance of LINAC in terms of coordinates and scales as per IEC- 1217 nomenclature and standard and adherence to international basic safety standards applied to all medical equipment that produce ionizing radiation.	The offered linear accelerator model shall have all IEC compliance of LINAC in terms of co-ordinates and scales as per IEC- 61217 nomenclature and standard and adherence to international basic safety standards apply to all medical equipment that produce ionizing radiation.	
7,	Page No-56 Treatment Table/Couch System Point No-10-V	v) The lateral range of the couch shall be at least ±20 cm. The longitudinal range of the couch shall be greater than 70 cm. The vertical motion of the couch shall range from the isocenter to at - least 60 cm below the isocenter.	n. of the couch shall be greater than 70 cm. The vertical motion of the couch	
8	Page No-57 Cone-Beam CT Imaging System Point No-V	All Advanced image registration methods such as critical structure avoidance and region of interest registration, deformable image registration if commercially available shall be provided.	registration, deformable image registration if commercially available shall	
9	Page No-58 Point No 3-xii	Capable of having integrity with exiting peripheral systems.	Capable of having integrity with existing peripheral systems like CT-Simulator, Treatment Planning System (TPS), Record and Verify (R&V) system & Linear Accelerator system.	
10	Page No-59 Point No-5	i) System shall have the capability of patient facial or other features and accessories recognition for safety.	i) System shall have the capability of patient identification for safety. Specify the patient identification method(s).	

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11	Page No – 59 Point No-4	Vendor shall provide required phantoms, accessories, tools system (software) for calibration, commissioning, and periodic quality assurance (QA) and also for SRS end-to-end QA phantom for clinical validation and implementation of offered SGRT system.	Vendor shall provide required phantoms, accessories, tools system (software) for calibration, commissioning, and periodic quality assurance (QA) and also for end-to-end QA phantom for clinical validation and implementation of the offered SGRT system.	
12	Page No- 62 Power supply Point No-2	Water Chiller System (ii) The water chiller system shall incorporate an automatic back-up facilities, remote control and alarm panel with warning facilities.	Water Chiller System (ii) The water chiller system shall incorporate automatic back-up facilities, remote control and alarm panel with warning facilities. The automatic backup facilities that include backup compressor, backup pump, backup valves and other critical components in the chiller system ensure continuous operation even if the primary components fail.	
13	Page No-63 5 years of Warranty Point No-1	The vendor shall give mandatory on-site warranty for first five years from the date of commissioning of the entire Linac system (including for all locally supplied items including consumables like batteries of the UPS, printer cartridges etc.) from the principals, except for the waveguide, beam- bending magnet assembly, electron gun, X-ray tube & RF system, which shall carry guarantee for 10 years. Pro- rata warranty is not acceptable.	The vendor shall give mandatory on-site warranty for the first five years from the date of commissioning of the entire Linac system including all locally supplied items: UPS and its batteries, Chiller system, AC system and printer from the principals, except for the waveguide, beam-bending magnet assembly, electron gun, X-ray tube & RF system, which shall carry a guarantee for 10 years. A Pro-rate warranty is not acceptable.	
. 14	Page No-63 5 years of Warranty Point No-1	During the warranty period, all the software updates and upgradation should be provided free of cost.	During the warranty period, all software updates and upgradation of software should be provided without incurring any change in the supplied hardware configuration free of cost.	
15	Page No-66 Point No-3	Treatment planning workstations, including dual 23-inch monitors, printer, keyboard, mouse with network capability.	Treatment planning workstations, including 23-inch monitors, printer, keyboard, mouse with network capability.	
16	Page No-60 General Requirements Point No-5	 The OIS shall include a secure, remote servers and workstations at least 23-inch monitors, printer, keyboard, mouse with network capability. 	5. The OIS shall include secure, servers and workstations at least 23-inch monitors, printer, keyboard, mouse with network capability.	
17	Page No-88 Point No-6	During Warranty and CAMC if there is an upgrade/extra software/update that shall be provided free of cost by the firm.	During Warranty and CAMC if there is any upgrade/extra software/update without any change on the supplied hardware configuration that shall be provided free of cost by the firm.	

Turnkey Points :-

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1	Point No.2 Page 78	2. The bunker/facility shielding work requirement is entirely the vendor responsibility. The successful vendor should do the necessary shielding works as per the AERB approved layout drawing and the same is given in the tender. The cost of the facility site modification work should be quoted separately, and this cost will be considered for L1 calculation.	 2. The bunker / facility shielding work requirement is entirely the vendor responsibility. The successful vendor should do the necessary shielding works as per the AERB approved layout drawing and the same is given in the tender. The cost of the facility site modification work should be quoted separately, and this cost will be considered for L1 calculation. (i) The Chiller and UPS room for Linac bunker at Room No 9, Main RT, is at the room at first floor above the maze area as shown in sectional drawing (A-A) of the attached layout drawing. The TPS room is situated above the control console room of the proposed bunker.
			(ii) The Chiller and UPS room for Linac bunker at Room No 33, Ground Floor, DRBRAIRCH, are shown in room layout plan of the attached layout drawing. The TPS room is situated at room number 34 & 37, Ground Floor, DRBRAIRCH.
2	Page 35; Clause 15.4 Page 63; Clause IV (1)	Warranty as well as Comprehensive Annual Maintenance Contract will be inclusive of all accessories and turnkey work and it will also cover the following, wherever applicable: - • Printers and imagers including laser and thermal printers with all parts. The vendor shall give mandatory on- site warranty for the first 5 years from the date of commissioning of the entire Linac system (including for all locally supplied items including consumables like batteries of the UPS, printer cartridges etc).	The vendor shall give mandatory on-site warranty for the first five years from the date of commissioning of the entire Linac system including all locally supplied items: UPS and its batteries, Chiller system, AC system and Printer.
3.	Page 81; False ceiling	Skylight of 8m x 8m is being asked. Acoustical tile or mineral fibre for ceiling.	A virtual skylight of 3m x 3m shall be provided in the treatment room roof-top (ceiling) with interior decoration. Acoustic mineral fibre tiles for ceiling shall be provided.
4.	Page 89; Clause 13	Before starting the turnkey work, load bearable certificate from any authorized government agency and NOC from the engineering department should be obtained, the cost of the same payable by the firm.	Before starting the turnkey work, load bearable certificate from any authorized government agency and NOC from the engineering department should be obtained, the cost of the same payable by the firm. The required structural drawings of the existing facilities will be provided to carry out the specified activity.

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5.	Page 83-87;	Attached drawings	The legible layout drawings in pdf format are attached.	
Dosimetry	/ Items :-			
		Relative Dosimetry Equipment		
	Page No. 73, Sr. No. 1	Radiation Beam Data Acquisition System		
1		3D scanning water phantom of square /rectangular shape for linear accelerator beam commissioning dosimetry and annual QA. The system shall have automatic setup for beam canter adjustment and auto field alignment capability. The system shall consist of 3D scanning water tank, lift table, water reservoir, electrometer / controller, beam data acquisition software with latest laptop computer, two approximately 0.125cm³ or equivalent water-proof ionization chambers and associated holders and cables.	3D scanning water phantom of square /rectangular/cylindrical shape for linea accelerator beam commissioning dosimetry and annual QA. The system shall have automatic setup for beam canter adjustment and field alignment capability. The system shall consist of 3D scanning water tank, lift table, water reservoir electrometer/controller, beam data acquisition software with latest laptor computer, two approximately 0.125cm³ or equivalent water-proof ionization chambers and associated holders and cables.	
2	Page No. 74(a)	3D water scanning square Phantom.	3D water scanning square/ Cylindrical phantom	
3	Page No. 74 (a) (i)	i. Water tank scanning square/ rectangular phantom dimensions of at least to 480x480 x400 mm ³	i. Water tank scanning square/ rectangular/ cylindrical phantom dimensions of at least to 480x480x400 mm ³	
4	Page No.74, Sr. No.1. (a) (iv)	A lift table with vertical travel range of 500 mm and rotation in the XY plane of ±5 degrees	ion A lift table with vertical travel range of 400 mm or more and rotation in the X plane of ±5 degrees.	
5	Page No.74 Sr. No. (a) (vii)	Water reservoir with bi-directional water transport lo and from the water tank and volume capacity more than 200 litres.	Water reservoir with bi-directional water transport to and from the water tank and volume capacity of 180 litres or more.	
		Quality Assurance and Control Equipment /System		
6	Page No. 75, Point No. 1	Machine QA Equipment/System Daily QA Vendor shall provide the ion chamber based standalone daily QA device /system to perform Xray and electron output, flatness and symmetry of beam profile, beam energy constancy test etc. for field sizes range from 10x10 to 20x20 cm². It shall be suitable for FFF beams. Vendor shall provide appropriate software system for analyzing, reporting and QA	Vendor shall provide the ion chamber based standalone daily QA device /system to perform Xray and electron output, flatness and symmetry of beam profile beam energy constancy test etc. for field sizes range from 10x10 or 20x20 cm². It shall be suitable for FFF beams. Vendor shall provide appropriate software system for analyzing, reporting and QA data management.	

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		data management.	6
	Page No. 75, Point No. 2	Patient-Specific IMRT and VMAT Verification QA Equipment/System	Patient-Specific IMRT and VMAT Verification QA Equipment /System
7	-	The systems shall consist of (a) 3D cylindrical phantom (b) 2D ion Chamber or diode array-based detector with a minimum of 1400 ion chambers with software system for IMRT and VMAT FFF beams having advanced comparison and evaluation tools including local and global gamma volume analysis as per AAPM TG-218 recommendations.	The systems shall consist of (a) 3D cylindrical/elliptical phantom (b) 2D ion Chamber or diode array-based detector with a minimum of 1400 ion chambers with software system for IMRT and VMAT FFF beams having advanced comparison and evaluation tools including local and global gamma volume analysis as per AAPM TG-218 recommendations. – 2 Nos.
	2	Dedicated SRS Patient-specific QA system: The vendor shall provide the dedicated SRS patient-specific QA system. The system shall consist of (a) 3D cylindrical phantom (b) suitable 2D ion Chamber or diode array-based detector and software system for SRS/SBRT patient plan QA including FFF beams with advanced comparison and evaluation tools and also local and global gamma volume analysis tool as per AAPM TG-218 recommendations.	Dedicated SRS Patient-specific QA system: The vendor shall provide the dedicated SRS patient-specific QA system. The system shall consist of (a) 3D cylindrical phantom (b) suitable 2D ion Chamber or diode array-based detector and software system for SRS/SBRT patient plan QA including FFF beams with advanced comparison and evaluation tools and also local and global gamma volume analysis tool as per AAPM TG-218 recommendations. – 2 Nos.
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आचार्य / Professor

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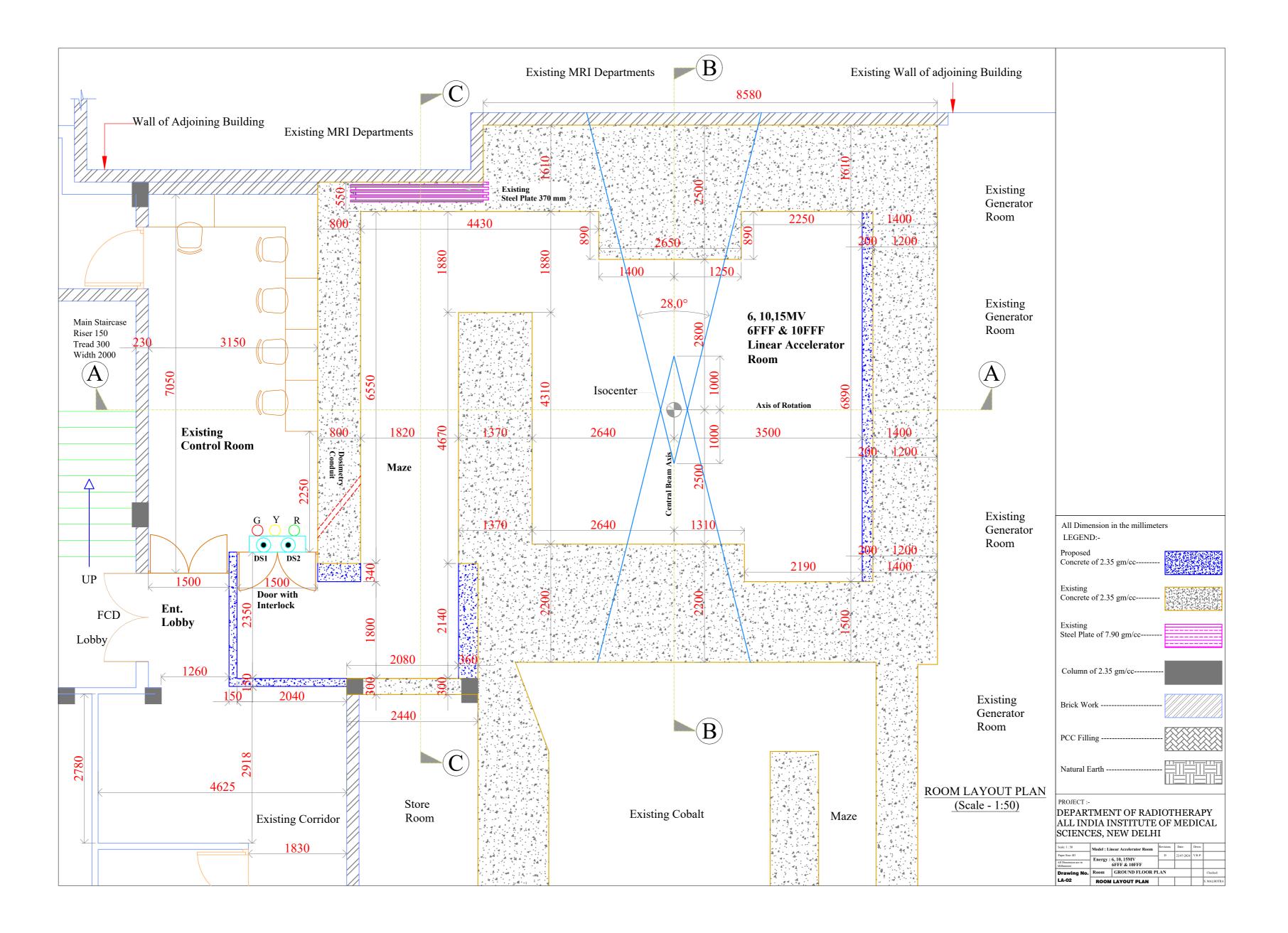
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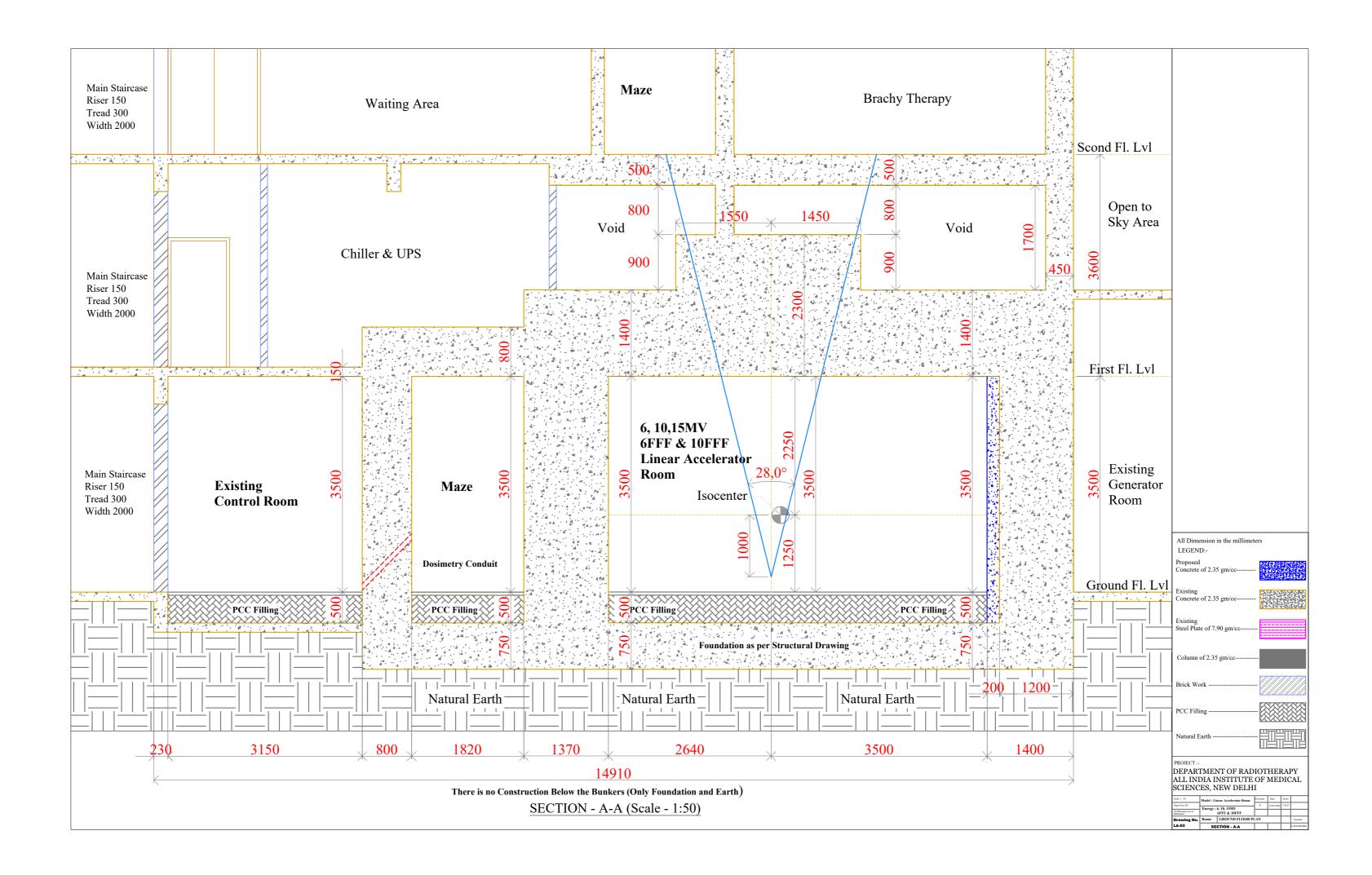
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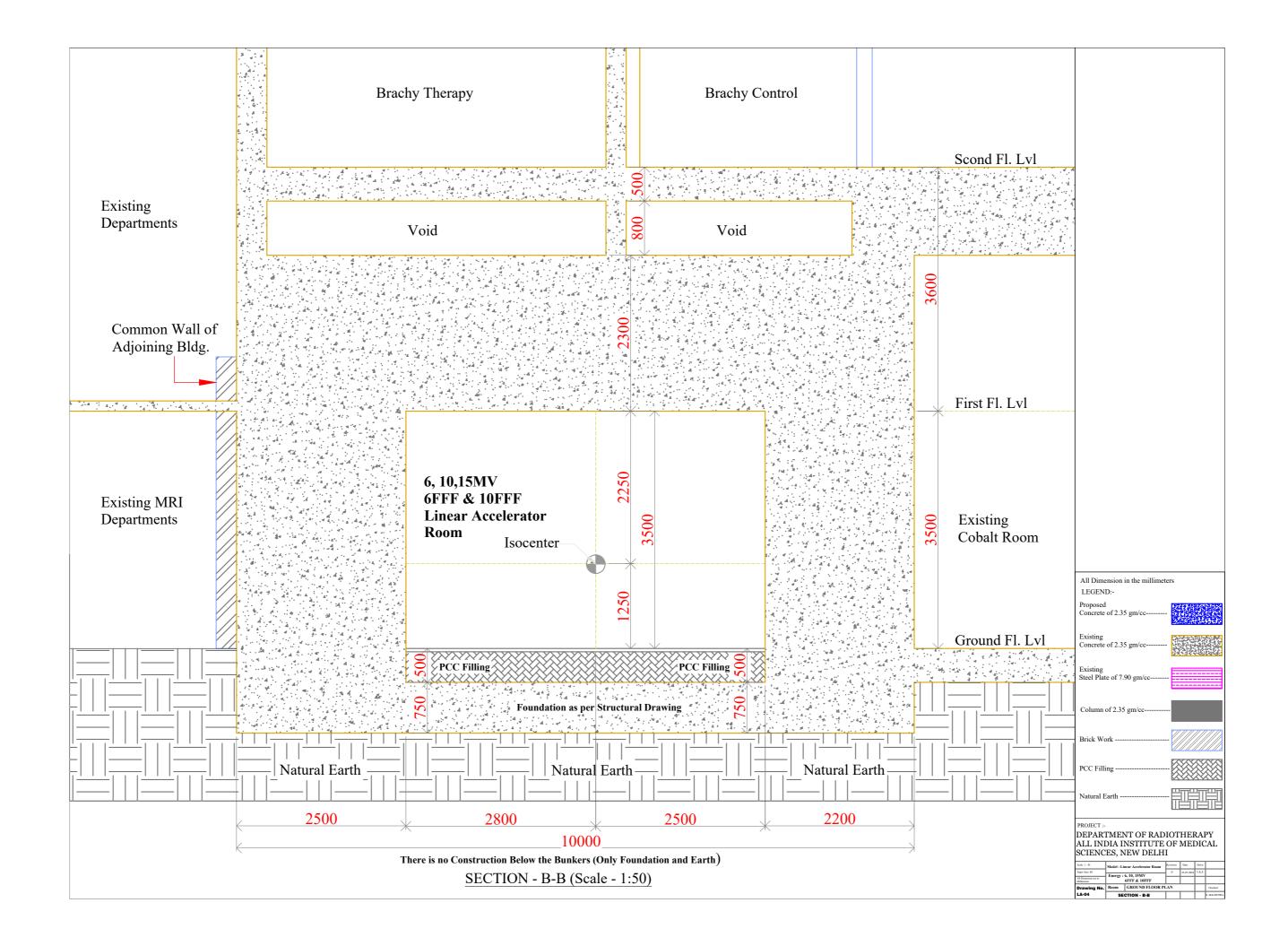
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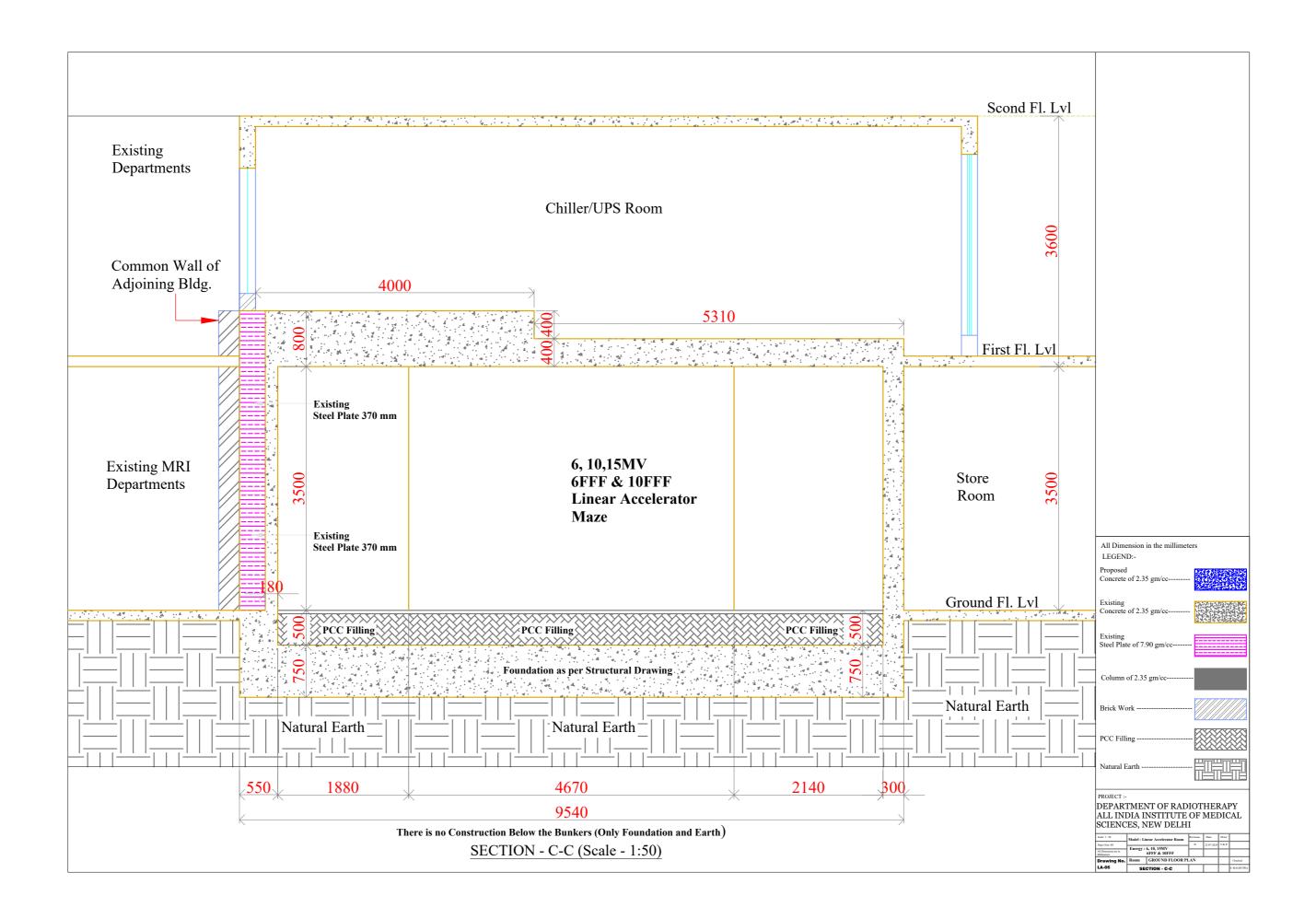
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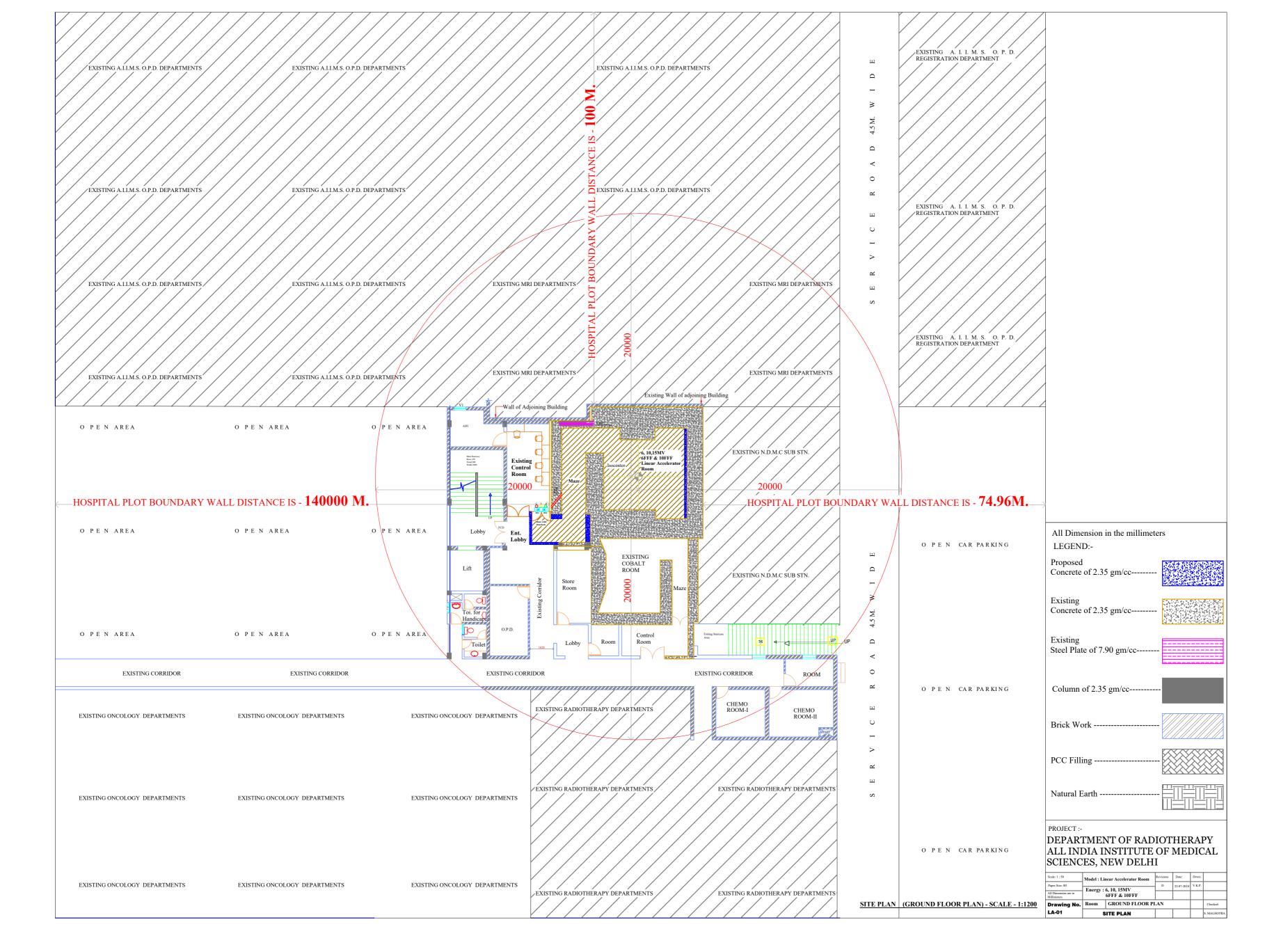
डॉ. सुनील कुमार/Dr. SUNIL KUMAR आचार्य एवं अध्यक्ष/Professor & Head शल्य अर्बुदविज्ञान विभाग/Depti. of Surgical Oncology डॉ. बी.आर.अं..रो.कें अ /Dr. B.R.A., I.R.C.H. अ.भा.आ.सं., नई दिल्ली/AllMS, New Delhi-29

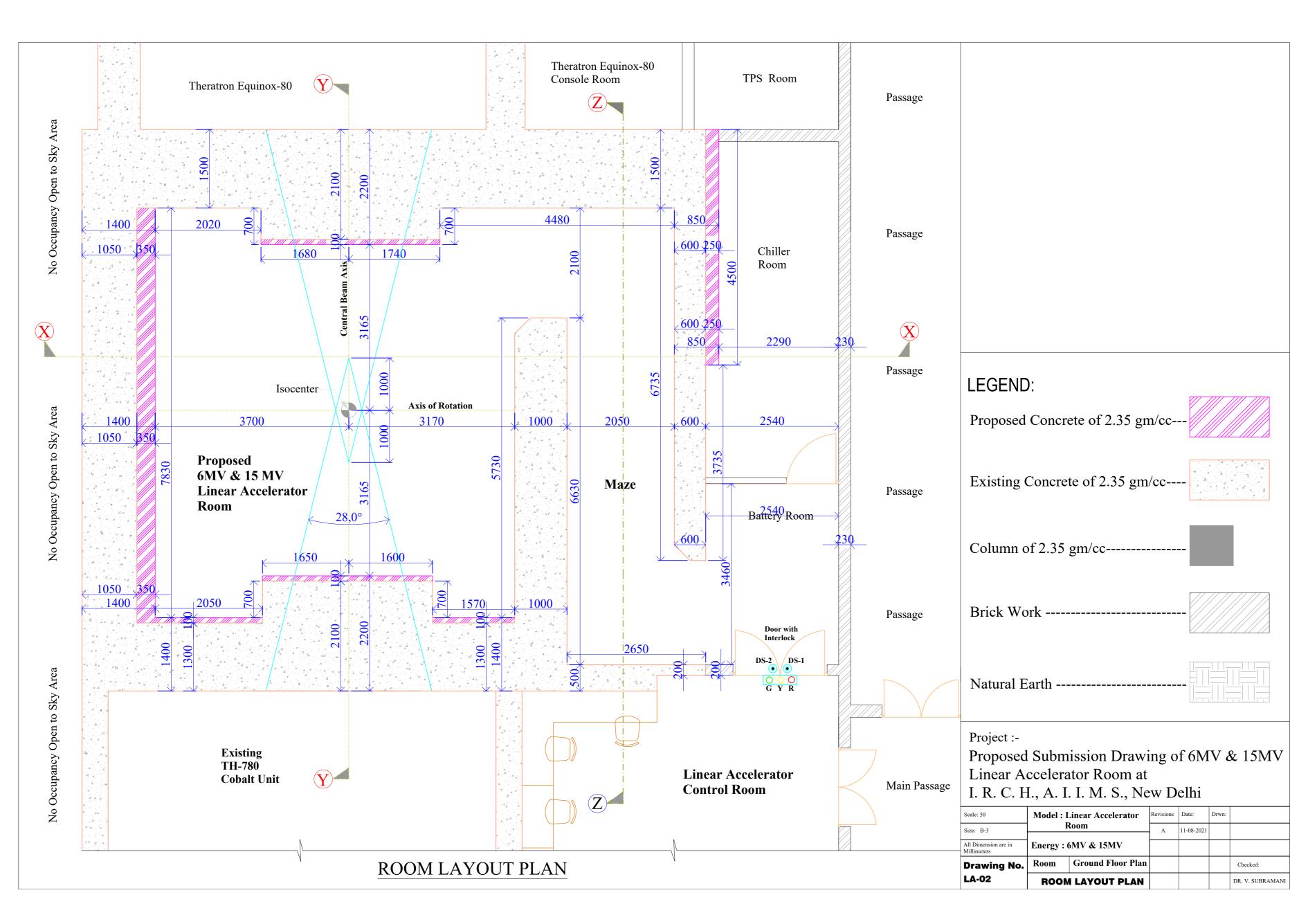


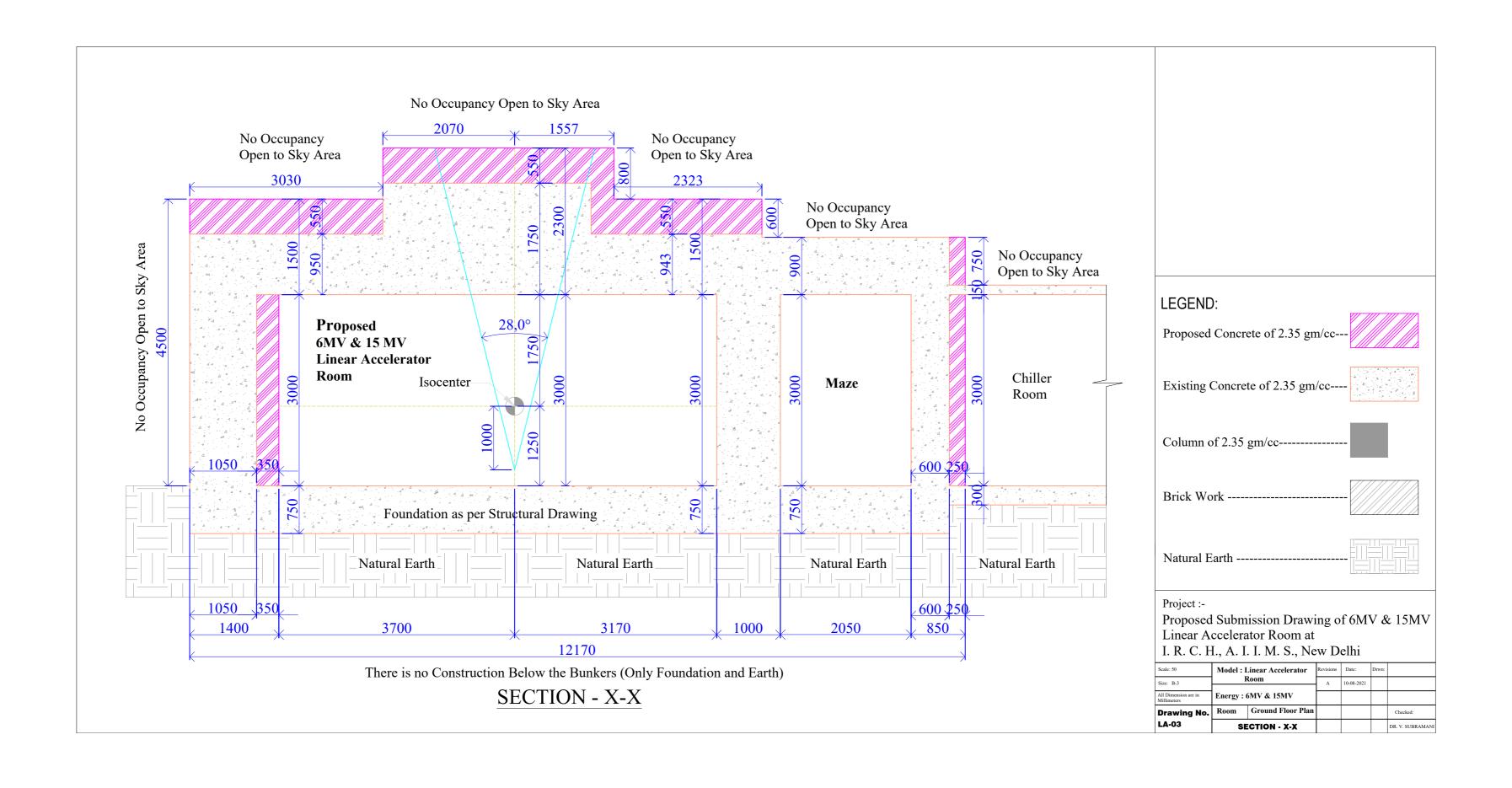


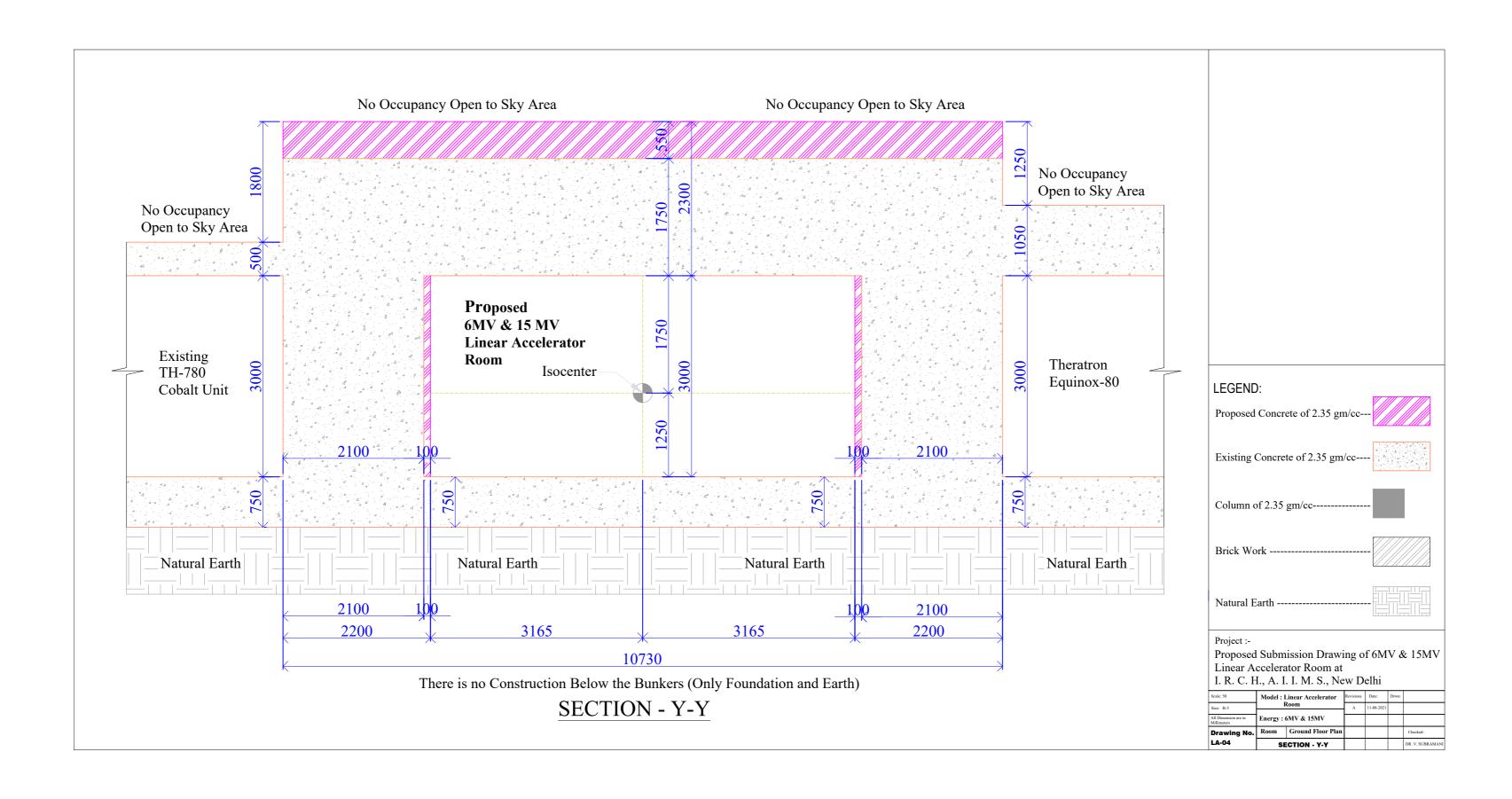


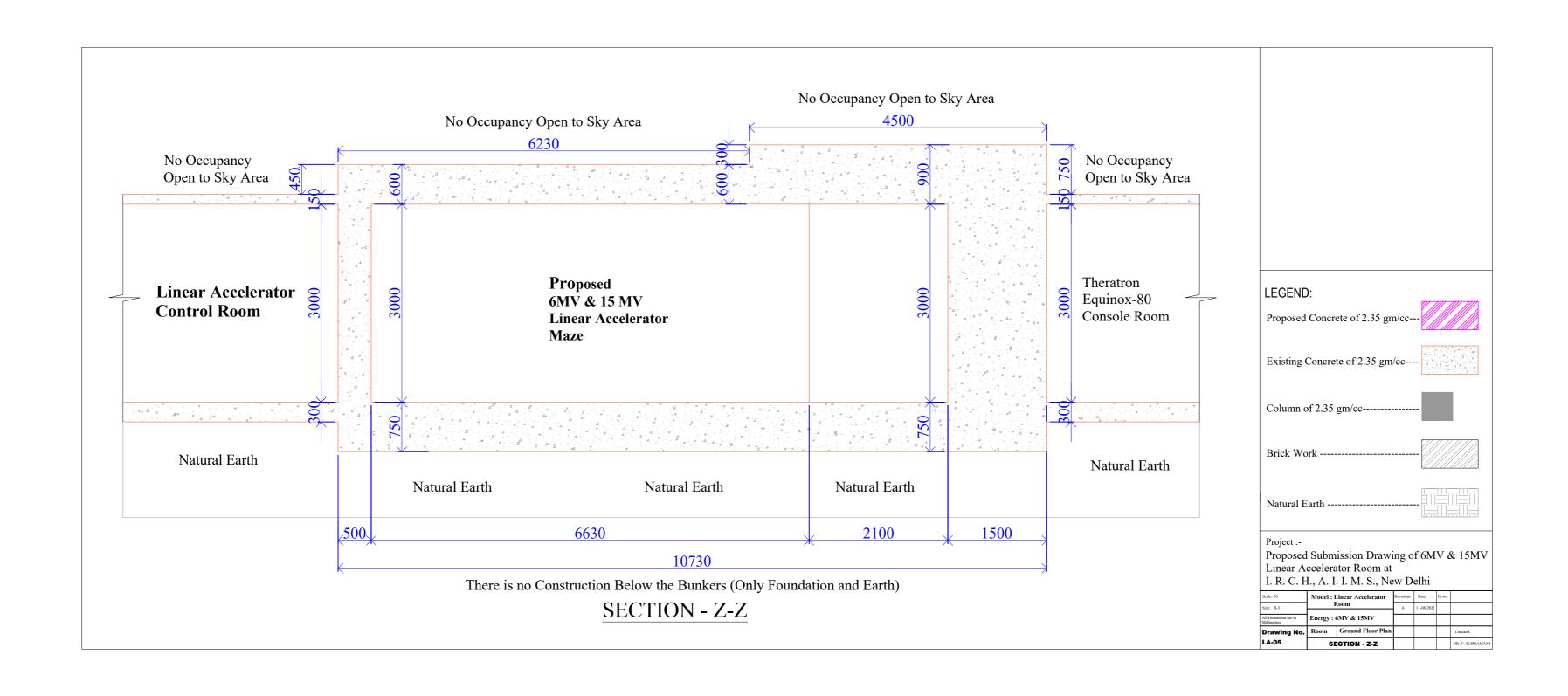


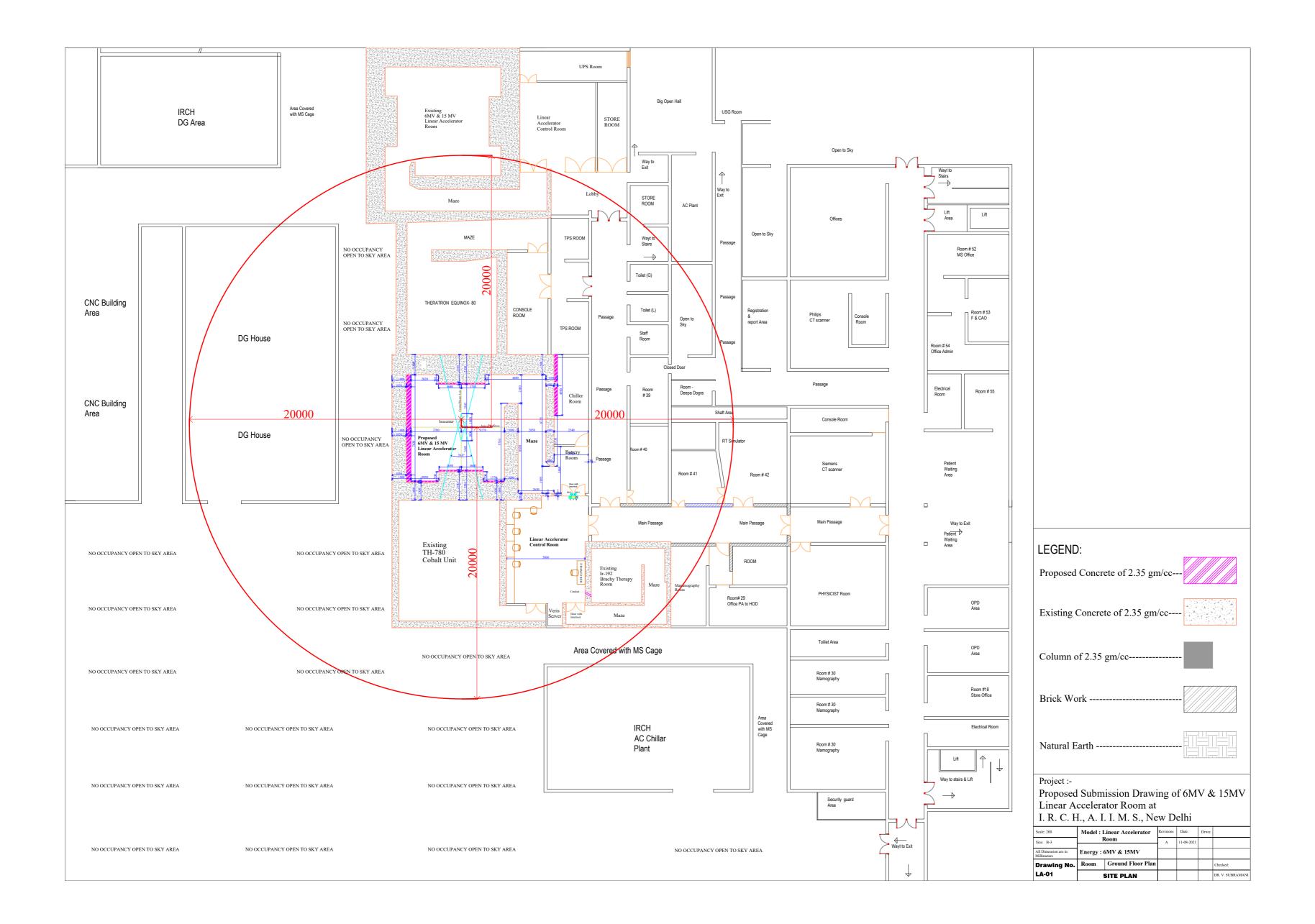














eProcurement System Government of India

Published Corrigendum Details

Date: 11-Sep-2024 01:10 PM



Organisation Chain :	All India Institute of Medical Science-New Delhi Store Main Hospital - AIIMS New Delhi
Tender ID :	2024_AIMSD_819144_1
Tender Ref No :	IR-04/IRCH/R.O./2024-25(CPP)
Tender Title :	Procurement of Advanced High Energy Linear Accelerator System under buyback basis with Turnkey Work
Corrigendum Type :	Date

Corrigendum:1

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Publish Date	31-Jul-2024 02:30 PM	Bid Opening Date	30-Sep-2024 10:00 AM
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Bid Submission Start Date	16-Aug-2024 10:00 AM	Bid Submission End Date	28-Sep-2024 12:30 PM
Pre Bid Meeting Date	09-Aug-2024 02:30 PM		

Details Before Corrigendum

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