SALIENT SPECIFICATIONS TABLE

Particle type	X-Rays (photons)
Energy	6 MV Bremsstrahlung (nominal)
Dose Rate (at one meter from the target	Variable from 50 to 240 Rads/min.
Field Size	0 x 0 cm to 35 x 35 cm with sharp corners.
	(40 x 40 cm with clipped corners)
Field Flatness	± 3% (up to 35 x 35cm)
Collimator Rotation	± 95°
Leakage Radiation	Less than 0.1% of forward dose in all
	directions except rear. On rear side 0.5%
Source to isocentre distance	100 ± 0.5 cm
Isocentre to Floor distance	139 ± 0.5 cm
Gantry Rotation	0° to ± 185°

PATIENT TREATMENT COUCH MOVEMENTS

Longitudinal	120 cm
Lateral	±20 cm
Vertical	Range 68 - 168 cm from Floor
Angular	±95° around vertical axis passing
	through the Isocentre.

ELECTRICAL REQUIREMENTS

Input power supply	3 - Phase, 50 Hz, 440 Volts ± 5%
Maximum Load	15 KVA

ABOUT SAMEER

Society for Applied Microwave Electronics Engineering & Research (SAMEER) is an R & D Institute,set-up by Department of Electronics & Information Technology (DeitY), Ministry of Communications & Information Technology, New Delhi.

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6MV MEDICAL LINAC

- PHOTON ENERGY 6MV
- SOURCE TO ISOCENTRE DISTANCE – 100 cm
- FIELD SIZE VARIABLE UPTO 35 x 35 cm AT ISOCENTRE
- MAXIMUM DOSE RATE – 240 RAD/MINUTE AT ISOCENTRE
- TYPE APPROVED BY ATOMIC ENERGY REGULATORY BOARD

Patient Treatment on SIDDHARTH