

List of equipments for the department of Skin & STD

Sl. No.	Name of Equipments
1	ND Yag Laser - Q switch ND Yag system with standard accessories, Dye impregnated polymers, wavelength 1064 nm/532 nm / 585 nm / 650 nm pulse with 5-20 nsec/<7 nsec, maximum fluence - 2mm - 8mm, 2.0J/cm ² - 14 J/cm ² , Maximum rep rate 10 Hz, Aiming beam red
2	V Beam pulse Dye laser with standard accessories
3	Two-in-One laser (Pulse Dye+ND Yag) - Lazer type - Pulse Dye - ND Yag, wave length - 585 nm & 1064 nm, pulse width 0.5msec to 40msec with pulse dye 0.3msec to 300msec with ND yag, Spot size - 5mm to 12mm with Pulse dye / 3mm - 15mm with ND Yag, Max fluence - 40J/cm ² with pulse Dye at 5mm, 300J/cm ² with ND yag at 3mm, Rep Rate - 2 Hz with 585nm & 5Hz with 1064nm, Aiming beam - Amber / Red
4	CO2 laser - Should have Fractional, incisional & Excisional capabilities for Skin cutting slough Removal, Skin Resurfacing / 10600nm wave length / have 60 watts power / continuous wave & Ultra pulse / Non swquential pulsing / Pulse Energy of 2-225mJ (Adjustable) / Deliver Max power to tissue of 240 wats per pulse / User selectable repetition Rate 600 pulses / second / Pulse duration of 0.1ms / Repeat delay of 0.1 to 5.0 seconds / 5-100% coverage/pass / Depth of penetration : Up to 4000 micro meter/pulse / Computer Pattern generator (CPG) Gun / Scan area up to 15mm x 15mm / Transmission by Durafite Articulated Arm, 360 degree rotation 1.5 meter (5') / Aiming Beam of Helium of Diode Laser / Half contained, closed cycle cooling system / CE, LU, CSA standards / UPS to 6 KVA / Supplied with operator & patient Safety goggles / Supplied with internal cornea shield & applicator / Turbo smoke Evacuator should be supplied with the equipment / True collimated Hand piece of 2mm Fractional Hand pieces : Spot Size : 1.3mm & 0.12mm / Focused incisional hand pieces : Spot size : 0.2mm and 1mm hand pieces) / US FDA approved
5	PUVA + NBUVB chamber

SPECIFICATION FOR FRACTIONAL CO2 LASER

Normal mode:

Wavelength	10.6 μ m, far-infrared laser
Pulsed radiofrequency	1 - 30 W
Hyper-pulse	Max Power: 102W
Pulse	1. Average power: 1-20 W 2. Pulse frequency: 33.3 Hz

Matrix mode:

Scan Graphics	Square, Rectangle, round & Oval
Dot quantity	400 dots maximum
Working state	Hyper-pulsed mode
Scan mode	Sequence scan or Random scan.
Pulse energy	20-65mj is optional for each dot in each energy repeat.
Max energy	65mj x 5 = 325mj in each dot

Technical specification:

Laser apparatus	Sealed -- off laser device stimulated by DC
Condenser focus	f = 100mm
Beam divergence angle	0.3 mrad
Spot size	0.2mm at the focus
Max power intensity	75,000 W / cm ²
Radiation time	0.01 - 1 sec
Interval time	0.01 - 1 sec
Aiming beam	< 2mW, 6354 nm red semiconductor laser
Beam transport device	Articulated arm with six segments
Power supply	230V

TECHNICAL SPECIFICATION OF ND YAG LASER, SI.No. C-1

Laser Type	Crystal Q - Switched Nd: YAG
Wave Length	1064 nm
Energy Range	0.2 to \leq 15 mJ (in single pulse mode)
	10 to \leq 25 mJ (in double pulses mode)
	20 to \leq 45 mJ (in triple pulses mode)
Pulse width	4 ns
Treatment Spot Size	8 μ m
Burst Mode	1, 2 or 3 pulses per shot, selectable
Mode Structure	Fundamental, diffraction limited
Avg. Air Breakdown	\leq 2.1 mJ (in air) & \leq 1.5 mJ (in liquid solution)
Cone Angle	16°
Treatment Beam offset Range	\pm 500 μ m, continuously variable
Laser Repetition Rate	Upto 3.0 Hz

Broad based QR for 42 lamps UV Therapy Whole Body Chamber

1. The Compact Chamber should have 21 PUVA and 21 Narrow Band Lamps Of 2 meters length Lamps of 120W each.
2. The Chamber Exterior Dimensions should not be less than:
Closed: 1,267 X 1,327 X 2,310 mm
Open : 1,357 X 1,539 X 2,310 mm
3. The interior Dimensions should not be more than : 939 X 2,000mm
4. The weight of the unit should not be more than : 405 kg
5. The height of the unit should not be more than 2400 mm
6. The Chamber should be One Phase ; 230V; 50HZ ; current consumption should be 28A.
7. The chamber should operate in ambient Temperature of 0° to 35°C
8. The Chamber should have the following Safety features:
 - a) UV sensor System.
 - b) Operated via Touch Screen.
 - c) Shut Off when Opened.
 - d) Viewing Panel.
 - e) Grab Rails.
 - f) Acrylic Glass Panels.
9. The Chamber should have the following Efficiency and Comfort for the Patients:
 - a) Cooling and Filter System.
 - b) Mirror- Finish Interior Reflectors
 - c) Illumination.
 - d) Interior Operating Panel.
 - e) Double Wing Door.
 - f) HR Foam Pedestal
10. Protective UV goggles- 2 Nos.
11. Equipment should confirm to CE and ISO norms.