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# TECHNICAL SPECIFICATIONS: DIODE LASER FOR VARICOSE VEINS SURGERY

## 1. MAIN UNIT

- a. Diode laser, configurable with one or more wavelengths,
- b. Up to 50 W of output power (810 nm, 980 nm, 1064 nm, 1470 nm)
- c. Beam delivery by flexible fibers and handpieces
- d. Pilot beam red or green, < 5 mW, adjustable
- e. Should have a built-in cooling mechanism
- f. Should work with electrical input of 230 240 V.
- g. The laser unit should be CE or US FDA certified.

#### 2. SHOULD HAVE THE FOLLOWING OPERATING MODES

- a. Continuous Wave (CW)
- b. Pulsed Mode
- c. LFD Mode (optional, for enhanced coagulation control)

#### 3. SHOULD HAVE THE FOLLOWING ACTIVATION PROFILES

- a. Continuous
- b. Single pulse (1ms 5 s)
- c. Pulse repetition (1ms 5 s)

# 4. USER INTERFACE OF THE UNIT SHOULD MEET THE FOLLOWING REQUIREMENTS

- a. Colour Touch Panel: 8 inch or larger
- b. Storage for user profiles and individual treatment parameters
- c. Interactive treatment assistant for guided choice of operating parameters
- d. Audio output per energy pulse or continuous
- e. USB port for export of treatment protocols



## 5. INTEGRATED PORTS

- a. USB
- b. Warning lamp system
- c. Scanner

# 6. OTHER REQUIREMENTS

- a. Should provide Protective Goggles
  - i. Protective Goggles (980 1500 nm) CE or US FDA certified x 2 sets
  - ii. Protective Goggles for Spectacle Wearers (980 1500 nm) CE or US FDA certified x 2 sets
  - iii. Protective Goggles for Patients. CE or US FDA certified x 2 sets

## b. Should Provide:

- i. Endo-Radial Fiber 400µm in diameter x 1pack (10 pcs); single use
- ii. Endo-Radial Fiber 600µm in diameter x 1pack (10 pcs); single use
- iii. Focussing hand pieces x 2

## c. Should provide:

- i. Should provide training for two Surgeons of AEH on laser varicose vein surgery in a suitable location abroad.
- ii. Should conduct in-house demonstrations / trainings (at AEH) for the two surgeons who were trained abroad.
- iii. Should provide operator manual (English)
- iv. Service manual including circuit diagrams and spare parts list (English)
- v. Details of the standard accessories, additional accessories, optional items, consumables and minimum supplies to be stated clearly.

# 7. OPTIONAL ITEMS (TO BE QUOTED SEPERATELY)

i. Should quote optional items like trolley and any other items that may be required to effectively use the laser unit in clinical setting.

