

### Notice Inviting e-Tender

## West Bengal Medical Services Corporation Limited Swasthya Sathi GN-29, Salt Lake, Sector-V Kolkata-700091

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Supply and Commissioning Nd Yag Laser at Regional Institute of Ophthalmology , Medical College and Hospital , Kolkata Campus

Bid Reference No.: WBMSCL/NIT-171/2023

Dated-12.04.2023

# <u>Amendment-l</u>

# **REVISED TECHNICAL SPECIFICATIONS**

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#### Nd Yag Laser

- 1. Laser type should be Q-switch (CQ-crystal) Nd YAG.
- The laser wave-length should be 1064 nm with mode of delivery beam Super/Gaussian/fundamental and optical breakdown being typically 2.5 millijoule in air.
- 3. Astigmatism Distortion detection should be done at 2 point or more aiming beam for highlighting astigmatic distortions.
- 4. The pulse duration should be less than 4 nano second (Typically 2-3 Ns) with maximum laser energy and pulse width should be in between 3 ns 5 ns.
  - a) Single pulse typically 10 millijoule
  - b) Double pulse typically 23 millijoule

- c) Triple pulse typically 37 millijoule
- 5. The energy level should be 22 steps with a pulse repetition frequency of maximum 2.5 hz and a focused diameter of 10 $\mu$ m in air (1/e<sup>2</sup>).
- 6. Machine should have burst model (1,2 or 3 pulse per burst).
- 7. Spot size should be  $6-10 \mu m$ .
- Angie of exit aperture should be 16 degree and the range should be within 15-17 degree with aiming beam laser diode preferably 670 nm, power 5μW -150 μW.
- 9. The focus shift variably should be preferably  $\pm 150 \ \mu m$
- 10. Electrical connection 100-240 V, ±10%, 50-60 Hz and the illumination of 12V; 30W halogen lamp adjustable.
- The magnification should be 5 step magnification through Gallilean changer with 10X eye pieces and tube f=140mm.
- 12. The tube should be parallel tube f-140mm with 50-78mm PD adjustment and convergent tube should be available as option.
- 13. Eye pieces should be 10X high eye point eye pieces with ±8 Diopter compensation of emetropia; 12.5 X available as option.
- A slit adjustment width should be 0-14mm, continuous length, in steps 1/3/5/9/14mm and the isolation transformer machine should isolation transfer for safe handling.
- 15. Ionization in water should be less than equal to 1 mili Joule
- 16. Lens for capsulotomy and iridotomy
- Motorized table for Nd-Yag laser
- 18. Safety & Standard: European CE or US FDA Certificate or BIS