



Running Contract Details	
Equipment Name	Co2 Laser System for New Born with Tracheal Disorder and Respiratory Distress
Running Contract Valid Till	15-08-2025
Tender Ref No	KMSCL/EP/T489(R)/746B/2023
Tendered Quantity	4
Supplier Name	M/s Praxis Health Technologies
GST No	32AAPFP1540D1ZM
Installation & Delivery Period	8 Week(s)
Up-time / PM vist	95% & 4 Visits per year
Warranty period	3 Years

Supplier`s Details		
Address	Contact Details	
Puthiyapalam Tali Kozhikode Chalappuram P.O	Contact Person	Anoop M
	Phone	4952700425
	Mobile No	9747275757
	Email	praxis.health2013@gmail.com

Item-wise Price Details				
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total
1	<b>Co2 Laser System for New Born with Tracheal Disorder and Respiratory Distress</b> <i>Model &amp; Make : Acupulse Duo / Lumenis</i>	11000640 Incl.GST :12%	811297.2	11811937.2
2	Reusable CO2 Fibre (Rate for future purchahse)	285600 Incl.GST :12%	21063	306663
		<b>11286240</b>	<b>832360.2</b>	<b>12118600.2</b>

Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	4 <sup>th</sup> Year	5 <sup>th</sup> Year	6 <sup>th</sup> Year	7 <sup>th</sup> Year	8 <sup>th</sup> Year	9 <sup>th</sup> Year	10 <sup>th</sup> Year
<b>Co2 Laser System for New Born with Tracheal Disorder and Respiratory Distress</b>							
Labour	2,94,660.00	3,09,393.00	3,24,863.00	3,41,106.00	3,58,161.00	3,76,069.00	3,94,873.00
Comprehens ive	5,89,320.00	6,18,786.00	6,49,725.00	6,82,212.00	7,16,322.00	7,52,138.00	7,89,745.00

## **Other terms & conditions**

1. The supplier shall execute an agreement with the purchaser as per tender conditions (agreement format is given in the tender document).
2. The supplier shall submit performance security amounting to 5.00% of the value of the supply order.
3. The labour & comprehensive charges of equipment after the completion of warranty period is finalized by KMSCL as mentioned above.
4. Since discount rate is not applicable for equipment under Running Contract of KMSCL, purchase/supply order can be issued directly to supplier at the given rate with tax & other charges (exclusive of KMSCL service charges).
5. If purchase/supply order is issued directly to the supplier, KMSCL service charge need not be paid. But the copy of the said order may be forwarded to KMSCL for information.

## **Technical Specification**

### **Equipment :Co2 Laser System for New Born with Tracheal Disorder and Repiratory Distress**

### **Equipment: Co2 Laser System for New Born with Tracheal Disorder and Respiratory Distress**

Co2 Laser System for Newborn with Tracheal Disorder and Respiratory Distress

#### I. Laser System

1. Laser system should be exclusively carbon dioxide laser with a wavelength 10.60 micro meters, infrared
2. The system should be stand alone Co2 laser with transition between fibre and free beam modalities, offering broadest range of clinical applications in Otolaryngology, head and neck oncology surgery, otology(including one shot stapedotomy), both with free beam and Co2 fibers.
3. Laser machine should have power output 1-40 watts
4. It should have 5Mw red diode aiming beam, 635NM, adjustable intensity
5. The beam delivery should be through (either 1 & 2)
6. A 7-joint, fixed mirror, spring balanced arm, the reach of the arm should be at least 120 cm with 360 deg rotation
7. A light weight carbon dioxide glass hollow fiber.Co2 fiber should be 2 meter long, 1.04 mm outside diameter, sterile, single/multiple use, 2.0 meter long
8. It should be equipped with one touch tab/switch to choose either wave guide or articulated arm modality without switching off/stopping the machine and without changing any part
9. Spot size: 295 mm at fiber output. Up to 40 watt
10. It should be microprocessor based
11. It should have a sealed Co2 laser tube
12. It should have continuous, single pulse and repeat pulse tissue exposure modes
13. It should have continuous (CW) of 01-40 watts
14. It should have a super pulse power of 1 -15 watts
15. It should have a timed exposure of following durations
16. On time (Single Pulse)- 0.05-1.0 sec. At 1.0 to 4.5 watts
17. 0.01-1.0 sec at 5-40 watts
18. On time (Repeat Pulse)- 0.05-1.0 sec at 1-4.5 watts
19. 0.01-1.0 sec at 5-40 watts
20. It should have a repeat delay, off time, 0.01 to 1.0 sec
21. It should have at least 5 user defined memory settings
22. It should have a 0.2mm focused hand piece
23. It should have at least two bacterial filters
24. It should have three laser safety glasses
25. It should have a self contained closed loop cooling system
26. It should have a display
27. It should be equipped with integrated animated accessories videos demonstrating how to set up it before staring application/surgery. These videos/graphics should be speciality and procedure specific

28. It should have a user friendly graphic display to provide step by step operating instructions
29. It should be compatible with 230V, 3A, 50HZ power supply

## II. Micromanipulator with following requirements for microlaryngeal laser surgery

1. It should have an optical design to assure perfect co-incidence of the diode and Co2 beams even at highest microsurgical magnifications
2. It should be easily adjustable and should have variable working distance from 225 mm to 400 mm and the same should be adjustable depending upon procedural needs
3. It should have continuously variable defocus with a user adjustable defocus limiter
4. Its joystick handle should be tension adjustable and autoclavable
5. It should be user selectable for left or right hand controls
6. It should be light weight, to maintain balance of the surgical microscope
7. It should have a minimum spot size of 160 microns
8. It should have a focus range of 0.15mm or better
9. It should have maximum defocus range of 2.8mm-4.6mm
10. It should have a power transmission of greater than 70%, with unlimited power input
11. It should have a robotic laser microsurgery system with following requirements
  - a. It should have beam scan shape: linear & curved incision: 0.3mm to 0.5mm in length(user defined), 0.7mm to 3mm for papillomatosis
  - b. It should have penetration depth of 0.2mm to 2mm (user defined) or low, medium and high

III. It should have dedicated oral, pharyngeal, otology and nasal hand piece set for oral, pharyngeal and nasal applications which should include

1. 200 / 230 mm hand piece unit (CVD optical unit, ports holder, M conical main extender, extra conical main extender, contamination collector)
2. Backstop extender-3 nos
3. Tip extender-3nos
4. Straight tip
5. Kamami nasal tip-3nos
6. Kamami nasal tip-3nos
7. 90 degree angled mirror tip extender
8. Cleaning brush
9. Tygon tube(8mm, ID, 1.5mm long)w/reducer fitting

## IV. Otology kit

1. It should have otology stainless steel handpieces for extending laser precision to the delivery site. Should have small shaft both angled and straight hand pieces( preferably autoclavable)
2. Should include detachable ultra thin tips(disposable) for hand pieces, straight & curved-outer diameter of which should be between 0.67 mm to 0.8mm
3. Should include sterile drapes, length 165cm
4. The kit should be from the same principle manufacturer

## V. Fiber & fiber accessories- should include separate Co2 fibers for larynx & otology

1. Reusable Co2 fiber-01 nos included in the main equipment cost. For future separate rate offered in the BOQ.
  - a. Can be used with flexible endoscopy
  - b. For use in tumor surgery in the larynx, pharynx, nasal and oral structures
  - c. Specially for use in stenosis & juvenile papillomatosis
  - d. Compatible with wide variety of rigid and malleable hand pieces
2. Right hand piece kit at least 3 rigid hand pieces
  - a. 60/70mm straight, straight Tip
  - b. 140mm bent, straight tip or malleable
  - c. 180mm straight, straight tip
  - d. 240mm bent, straight tip
3. Endoscope protection sheath- 2nos length: 640mm, OD:1.7mm
4. Hand piece bending tool

5. Robotic drop in guide: should include company manufactured flexible insert to be used along with fibers through 5mm trocar sleeve channel to collaborate the advantages of laser to robotic surgery for:
  - a. Quick access of targeted anatomy and tissues
  - b. Control energy delivery to achieve desired clinical outcome
  - c. The fiber should be able to withstand the multiple angles of articulation imposed by the robot
6. Hand piece cleaning kit: includes 3 cleaning brushes and 20 extra silicon tube/ Cover for hand pieces
7. Bending and cutting tools to reuse fiber
8. Sterilization tray for fibers

#### VI Smoke evaluator

1. Compatible with the laser machine
2. Imported quality-include smoke evacuation unit with pneumatic footswitch
3. VI 6 filter/ ULPA Filter-6 hour double port 7/8" and 1-1/4", 7/8" tubing with wand and tip-2nos
4. 5ml of 50 laser mask 0.1mm filtration media(flat mask)
5. Laser mask 0.1mm filtration media (Flat Mask)

VII. UPS: minimum of 3KVA or more for the whole system

VIII. Power supply: 220 V,50Hz

IX. List of all optional accessories & consumable required for onco surgeries need to be provided and quote rate for the same

X. Should have safety certificate from a competent authority CE issued by a notified body registered in the European commission / FDA (US)/ STQC                      CB Certificate/STQC S Certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate/ test report shall be                      produced along with the technical bid.

**Note:** If CDSCO (Central Drugs Standard Control Organization) certification is required for the import and marketing of the equipment, then the same shall be submitted along with the technical bid