



Running Contract Details	
Equipment Name	ETO Sterilizer Model B
Running Contract Valid Till	17-05-2021
Tender Ref No	KMSCL/EP/T307/728B/2019(R)
Tendered Quantity	20
Supplier Name	M/s Kerala Surgical Equipment Co
GST No	32AACFK7295D1ZG
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	
No.41/1737 A MES Centre Near Town Hall Banerji Road Cochin -18	Contact Person	Mr. Abbas
	Phone	
	Mobile No	9539012460
	Email	info@keralasurgicals.com

Item-wise Price Details				
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total
1	<b>ETO Sterilizer Model B</b> <i>Model &amp; Make : GS5 / 3M</i>	4071000 Incl.GST :18%	284970	4355970
		<b>4071000</b>	<b>284970</b>	<b>4355970</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>ETO Sterilizer Model B</b>							
Labour	81,500.00	81,500.00	81,500.00	81,500.00	81,500.00	81,500.00	81,500.00
Comprehensive	2,44,250.00	2,44,250.00	2,44,250.00	2,44,250.00	2,44,250.00	2,44,250.00	2,44,250.00

**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% 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 :ETO Sterilizer Model B**

1. The ETO gas sterilizer should be fully automatic type for sterilization of heat sensitive goods such as anesthetic tubing and endoscopes etc.
2. The sterilization chamber should be double walled, corrosion and gas resistant of suitable alloy. The inner surface should be smoothly finished to minimize gas deposits. The chamber shall be insulated against heat emission and the jacket shall be connected to the warm water circulation arrangement.
3. The sterilizer door shall have a quick release locking arrangement with door opening.
4. Suitable safety interlocking arrangement shall be provided for the door so that the sterilization process does not start unless the door is properly locked in position and during the program run it should not open.
5. The sterilizer shall be provided with a suitable vacuum pump and gas trap to separate and evacuate the gas.
6. The sterilizer shall be provided with an automatic programmable panel with memory for preset operating sequence of all programs of operation. Monitoring instruments should be provided with the ETO for proper operation and monitoring of sterilizing process such as pressure manometer, thermometer, limit selector for temperature and pressure etc.
7. The ETO sterilizer should be able to operate for the minimum essential following cycles programmes:
  - a. Sterilization cycle for heat sensitive objects that ensure temperature from 40-55o with subsequent aeration for protection of the operating personnel.
  - b. Aeration cycle/program to extract residual gas out of the sterilized objects after each sterilization cycle.
  - c. Automatic chamber evacuation cycle with subsequent venting before releasing the door lock for opening, thereby prohibiting exposure of the operating personnel by gas dissolving from the chamber walls during shutdown period.
  - d. Gas disposal arrangement / catalytic converter.
  - e. Capacity: 130 to 150 litre
8. Sterilization gas: 100% Ethylene oxide.
9. Sterilization method: Cold sterilization of heat sensitive materials.
10. Temperature: Cold and Warm Temperature cycle.
11. No. of doors: One.
12. The Machine should have micro controller for process sequence control like program, preparation, humidification, sterilization, aeration, completion, remaining time & operation record etc.

13. System Configuration Accessories, spares and consumables

- a. Sterilization basket of suitable size 1 No.
- b. ETO gas cartridges 50 Nos.
- c. Compressor for degassing
- d. Packing Material with Chemical Indicator and dispenser of four different sizes two rolls each
- e. Sealing machine (1#) as per specification given below
- f. Biological indicator 5 sheets.

14. The entire unit & Gas cartridges should be EPA (Environmental Protection Agency or certified for Government authority in India. Statutory concerned with Environment protection & occupational safety regulations applicable). Certificate should be provided with the technical bid.

15. Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility. Or should comply with 89/366/EEC; EMC directive.

16. The unit shall be capable of being stored continuously in ambient temperature of 0 - 50 deg C and relative humidity of 15-90%.

17. The unit shall be capable of operating continuously in ambient temperature of 10 - 40deg C and relative humidity of 15-90%.

18. Should have built in alpha numeric printer to be available to monitor continuously all the vital sterilization parameter like temperature, vacuum , time etc. Printing paper 10 Roll.

19. Power input to be 220-240VAC, 50Hz

20. On line UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up.

21. Shall meet International Organization for Standardization. Biological evaluation of medical devices. Part 7: ethylene oxide sterilization residuals [standard]. 1st ed. ISO 10993-7. 1995 (reaffirmed 2001). OR Any international/ National standard for ETO Safety.

22. Local Pollution Control Board clearance is mandatory.

23. The price quoted should be inclusive of installation charges and the complete installation should be done/ arranged by the supplier including exhaust above the building level.

24. 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

25. The cost of additional ETO cartridge shall be quoted and rate offered will be considered for L1 evaluation and the rate shall be fixed for a period of at least 3 years from the date of price bid opening.

Sealing machine

- 1. The unit should have manual heat adjustments.
- 2. System should be suitable for the sealing of surgical instruments in paper envelopes.
- 3. Should be microprocessor controlled.
- 4. Smooth easy cleaning surfaces.
- 5. Quick sealing time with sealing width of 12mm.

6. It should be a compact table top system.
7. Ergonomic handling with anti fatigue movement.
8. Should have automatic sealing indicator.