



| Running Contract Details | |
|--------------------------------|---|
| Equipment Name | Heart Lung Machine with Heater cooling Unit |
| Running Contract Valid Till | 28-09-2025 |
| Tender Ref No | KMSCL/EP/T506/1170/2023 |
| Tendered Quantity | 5 |
| Supplier Name | M/s Medibright Surgicals |
| GST No | 32ABHFM4368D1ZF |
| 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 | |
| Room No.23/326/54 Np Tower Poothole P. O Thrissur | Contact Person | Brighten P F |
| | Phone | |
| | Mobile No | 9744002907 |
| | Email | medibrightsurgicals@gmail.com |

| Item-wise Price Details | | | | |
|-------------------------|--|---|------------------------------------|-----------------|
| # | Item Details | Unit Rate (Incl.all taxes & charges) | Service Charges (Through KMSCL) | Grand Total |
| 1 | Heart Lung Machine <i>Model & Make : S5 PRO / LIVANOVA DEUTSCHLAND GMBH</i> | 10080000 Incl.GST :12% | 743400 | 10823400 |
| 2 | Heater Cooling Unit <i>Model & Make : 3T/LIVANOVA DEUTSCHLAND GMBH</i> | 3360000 Incl.GST :12% | 247800 | 3607800 |
| | | 13440000 | 991200 | 14431200 |

| Annual / Comprehensive Maintenance Charges (Exl.Tax) | | | | | | | |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| Rate | 4 th Year | 5 th Year | 6 th Year | 7 th Year | 8 th Year | 9 th Year | 10 th Year |
| Heart Lung Machine | | | | | | | |
| Labour | 3,00,000.00 | 3,15,000.00 | 3,30,750.00 | 3,47,288.50 | 3,64,652.00 | 3,82,884.00 | 4,02,029.00 |
| Comprehensive | 6,00,000.00 | 6,48,000.00 | 6,99,840.00 | 7,55,827.00 | 8,16,293.00 | 8,81,596.00 | 9,52,125.00 |

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 :Heart Lung Machine

1. Heart Lung Machine

1. Should have 4 pump console: 3 single roller pumps and 1 twin roller pump module .
2. Twin roller pump should have selectable ratio of blood and cardioplegia from 1:1 to 1:20
3. Should have direct drive pumps and touch screen technology on pump heads
4. Console should be compatible to integrate an additional centrifugal pump module
5. Air-oxygen blender with hoses and flow meter should be provided
6. Each pump should have programmable modes of operation as :Arterial, Arterial pulsatile, cardioplegia, slave 1, slave 2,pump sucker, auxiliary and free
7. Pumps should be operable in clockwise and counter clockwise direction
8. It should have a precise and lockable central occlusion knob
9. Should have a separate cardioplegia monitor unit below the system control panel
10. Cardioplegia monitoring unit should display cardioplegia data including volumes, ratio, time, pressure and temperature
11. Each roller pump should be capable of running on 24 V supply with a transformer in the console
12. Roller pumps should be easy to remove and reassemble
13. The heart lung machines should have an emergency battery back up for atleast 90min for all the pumps with all necessary safety systems and accessories
14. Transitioning from mains to back up power should not require any action from the user
15. Level and bubble detector should be provided with the unit
16. Bubble detector should detect bubbles of minimum 5 mm diameter
17. Unit should have the following parameters monitoring facility:pressure(for 4 pressure display), Time(3 resettable timers with 1 real time display), Temperature monitor(temperature display), cardioplegia delivery(Total volume, actual volume, time, pressure of delivery), Temperature control of heater cooler unit
18. Should work with 220 240v/ 50-60Hz
19. Should be compact
20. Should be transportable with castor wheels that are 360 degree turnable
21. Should have an flexible LED lamp, which is water resistant and provide natural white light
22. Should have fixed height shelf along with the machine
23. Should have a multipositional system control panel
24. All alarms and errors should be acoustically represented
25. A single button to silence and alarm should be incorporated
26. Remote control for the heater cooler unit to allow control the patient temperature
27. Should have safety certificate from a competent authority CE/FDA (US). Other equivalent certificates will not be accepted. Should have valid detailed electrical and functional safety test report from ERTL. Copy of the certificate/test report shall be produced along with the technical bid
28. Should have the accessories
29. Standard venous clamp
30. drawer which can be fixed below the console
31. height adjustable slide guard which can be fixed to the right or the left side to the console
32. All pumps must be rotatable by 15 degree increments upto 180 degree or 240 degrees

33. All alarms and safety warnings must be displayed as text messages and have differentiated audio alarms.
34. System must have provision to add Mast Pumps
35. Continuous inline blood parameter monitoring.

II. Heater Cooling Unit

1. Unit should have 3 tanks. Machine must be capable of independently controlling 3 separate temperatures cooling and warming patient cardioplegia, blanket.
2. Water temperature should be regulated independently.
3. Main and cardioplegia should be separated in two tanks to ensure fast temperature adjustments of the two circuits and allow the availability of cold cardioplegia
4. Should be modern design and the outer housing should be in polished stainless steel
5. Should be compact
6. Should be easy to manoeuvre (very good running, 180 degrees turnable wheels with foot-lever operated brakes)
7. The data of the user interface should be transferrable to the Device via CAN
8. The Control Unit should be individually positioned on the machine or the mast of any heart lung machine. No second remote control is necessary.
9. There should be provision to connect two external temperature sensors to the cooling warming therapy units and to the HCU device
10. The interior design should include an automatically controlled mixing valve.
11. Only the circulated water should be heated (not the tank water).
12. The rapid switching of temperatures should be applicable to both, the patient water circuit and the cardioplegia water circuit.
13. Only the circulated water should be heated (not the tank water).
14. The rapid switching of temperatures should be applicable to both, the patient water circuit and the cardioplegia water circuit
15. Should have safety certificate from a competent authority CE / FDA (US) / STQCS CB certificate / STQCS 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:

1. Rate for each item mentioned needs to be offered separately
2. 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
3. Warranty exclusions if any shall be discussed at the time of prebid meeting else the tender condition as per clause 6.31.20 shall prevail