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Running Contract Details				
Equipment Name	Anaesthesia Workstation Model B			
Running Contract Valid Till	23-12-2025			
Tender Ref No	KMSCL/EP/T409/2B/2021			
Tendered Quantity	50			
Supplier Name	M/s Sree Gokulam Healthcare Pvt Ltd			
GST No	32AAJCS3502K1ZI			
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				
Sree Gokulam Healthcare Pvt. Ltd. Door No. 36/2535A	Contact Person	Anoop			
Kunnumpuram Junction Edappally North PO.	Phone				
Kochi- 682024	Mobile No	9995813333			
	Email	sales@gokulamhealthcare.com			

			Item-v	wise Price Details				
#		Item Details		Unit Rate (Incl.all taxes & charges) Service (Through	-	Grand Total	
1	Anaesthesia Worl Model & Make : WAT			241998 Incl.GST :12		178473.82	2598457.82	
2	Vaporizer - Sevoflurane			7840 Incl.GST :12	*	5782	84182	
3	Vaporizer - Isoflurane			7840 Incl.GST :12	*	5782	84182	
4	4 Cardiac output measurement facility by Thermodilution technology with all accessories			7280 Incl.GST : 12	~	5369	78169	
5	Vaporizer - Desfl	Vaporizer - Desflurane		47600 Incl.GST :12	*	35105 511		
				312558	4 2	230511.82	3356095.82	
	Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	e 4 th Year	5 th Year	6 th Year	7 th Year	8 th Year	9 th Year	10 th Year	

	Annual / Comprehensive Maintenance Charges (Exl.Tax)							
	Anaesthesia Workstation Model B							
Labour	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	
Comprehensi ve	2,36,570.00	2,48,400.00	2,60,829.00	2,73,860.00	2,87,550.00	3,01,930.00	3,17,030.00	

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 3.00% 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 : Anaesthesia Workstation Model B

ItemName: Anesthesia Workstation Model B

I. Operational Requirements

1. Anaesthesia machine complete and integrate with anesthesia gas delivery system; Circle absorber system; Precision vaporizer for isoflurane and sevoflurane; Anesthesia Ventilator, Monitoring system To monitor anesthesia gases, ECG, EtCO2, FiO2 (online 02 Analyzer), Pulse Oximeter and airway pressure, NIBP, IBP,

1. Rectal &skin temperature.

2. Essential accessories to make the system compete and compatible with the existing system of gas outlet.

II. Flow management

- 1. Should be compact, ergonomics & easy to use.
- 2. Machine should provide with electronic gas mixing
- 3. Integrated Multi-Color Touch Screen TFT display of at least 15" size, with virtual flow meter for 02, N20 or Air
- 4. Single/ dual flow sensing capability at exhalation and inhalation port.
- 5. Should have back up O2 control which provides' an independent fresh gas source and flow meter control in case of electronic failure (Auxillary flowmeter).
- 6. One number yoke each for O2 and N2O. Separate pipeline inlet for oxygen, Nitrous Oxide and Air.
- 7. Hypoxic Guard to ensure minimum 25% 02 across all 02-N20 mixtures and oxygen failure warning.

III. Breathing System

- 1. Latex free autoclavable @ 134 degree Celcius and allow breathing system dismantling by user without the help of any tools
- 2. Flow sensing capability at inhalation or exhalation ports, sensor connections shall be internal to help prevent disconnect
- 3. Sensor should not require daily Maintenance
- 4. Bag to vent switch shall be bi-stable and automatically begins mechanical ventilation in the ventilator position
- 5. Adjustable pressure limiting valve shall be flow and pressure compensated

IV. Standard circle absorber system

- 1. Should have adjustable pressure limiting valve, breathing circuit pressure measuring device
- 2. Should have a bag/ventilator selecting valve integrated onto the absorber
- 3. Should be suitable to use low flow techniques
- 4. Facility to attach oxygen sensor
- 5. Should have CO2 absorbent chamber canister with CO2 bypass

V. Vaporizers

- 1. New generation vaporizer must be isolated from the gas flow in the off position and prevent the simultaneous activation of more than one vaporizer.
- 2. Vaporizer should mount to a selectatec or equivalent manifold of two vaporizers, which allows easy exchange between agents. Temperature, pressure and flow compensated vaporizers and maintenance free for isoflurane, Sevoflurane and Desflurane.

VI. Ventilator (integrated)

- 1. The workstation should have integrated anesthesia ventilator system for adult and pediatric.
- 2. Ventilator should have volume control and pressure controlled, SIM V/P, CPAP PSV, PRVC/PCVVG/ Auto flow and PEEP.
- 3. Ventilator should have a tidal volume compensation capability to adjust for losses due to compression, compliance and leaks; and compensation for fresh gas flow.
- 4. The workstation should be capable of delivery of low flow anesthesia.
- 5. Ventilator should be capable of at least 110L/min peak flow.
- 6. Ventilator should have guided self test with facility to do full test as well as individual test
- 7. It should have an option /mode to show the efficiency of fresh gas flow setting while used in low and minimal flow that will prevent of any fresh gas deficit or chance of getting hypoxic mixture during minimal flow or Provision for display of safe level of Oxygen to be delivered into circuit to maintain a specific FiO2 at patient end especially useful while conducting minimal flow anaesthesia and controlling fresh gas flow manually when integrated with Anaesthesia Gas monitoring Module.

VII. Anesthesia monitoring system should be modular:

- 1. Monitoring of vital parameters; ECG (5 Leads) with ST segment analysis, NIBP, SPO2 and 2 invasive blood pressure & Spirometry with display of flow volume loop (Either in Ventilator or Patient Monitor). Monitor size should be atleast 15" touch screen..
- 2. Twin temperature measurement with skin and rectal probes Two set with each monitor.
- 3. Automatic identification and measurement of anesthetic agents, EtCO2, O2, FiCO2, N2O, MAC value FiO2 and FeO2 measurement (Should work either in Ventilator or in patient monitor).
- 4. Depth of Anesthesia monitoring module BIS/ ENTROPY one per monitor with 20 sensors with minimum 10 months shelf life.
- 5. Neuromuscular monitoring with all accessories.
- 6. Cardiac output measurement facility by PICCO / LIDCO/ Thermodilution technology with all accessories. The rates shall be quoted separately in the BOQ.
- 7. 24 Hours of graphical and numerical trending.
- 8. Should have a detachable monitor module that serves as a transit monitor/ separate monitor with the following parameters SPO2, ECG and IBP.

9. Facility for storing snaps shot/ event recording during critical events for waveform review at a later stage.

10. Audio visual and graded alarming system.

VIII. Display of ventilator

- 1. Tidal volume (VT)
- 2. Inspiratory /Expiratory ratio (I:E).
- 3. Inspiratory pressure (P inspired)
- 4. Pressure limit (P limit)
- 5. Positive End Expiratory Pressure (PEEP)
- 6. Ventilator waveform

IX. The equipment should have the provision for Centralized monitoring and Networking

X. System Configuration Accessories, spares and consumables

- 1. Anaesthesia Gas Delivery system -01
- 2. Circle absorber -.01
- 3. Ventilator -01
- 4. Monitor -01
- 5. Vaporizer Sevoflurane -01
- 6. Vaporizer Isoflurane -01
- 7. Adult and Paediatric autoclavable silicone breathing circuit -02
- 8. Reuseable IBP cable 2 nos and disposable IBP Transducer -10
- 9. Temp probe Skin reusable -02
- 10. Temp probe Rectal Reusable -02
- 11. Accessories Anaesthetic gases -01 set

a. sample line -10 nos

b. water trap – 10 nos

- 12. Depth of Anaesthesia Sensors 20
- 13. Accessories for Cardiac Output module -01 set
- 14. Accessories for neuromuscular transmission monitor -01 set
- 15. ECG 5 lead 1 No, SPO2 Reuseable Adult 1 No, NiBP tubes and cuffs 3 sizes (Medium, large and Extra large)
- 16. Disposable Adult & Pediatric circuits -50 each
- 17. HME filters -25 Nos
- 18. Microstream / Side stream ETCO2 disposable kit for adult-25 nos, paediatric 2 nos.
- 19. Should have retractable/ foldable writing tray to provide in case of insufficient writing surface
- 20. Desflurane The rate to be quotated as optional (Not taken for evaluation)

XI. Environmental factors

1. Environmental factors Machine should have facility to connect to active AGSS (Anaesthetic Gas Scavenging System/port) at the user institution if a working scavenging system provided by the user is available. The key plug for AGSS should be provided by the user institution. Should also supply passive scavenging tube.

ââ,¬â€**XII. Power Supply**

- 1. Power input to be 220-240VAC, 50HZ/ as appropriate fitted with Indian plug.
- 2. UPS of suitable rating shall be supplied / In built battery backup for minimum 1 hour for the entire system. Atleast two auxiliary power outlets should be available with switch or Circuit breaker.

XIII. Standards, Safety and Training

- 1. Should have safety certificate from a competent authority CE / 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.
- 2. The Anaesthesia machine and Ventilator should be from one manufacturer.
- 3. Certificate of calibration and inspection from factory shall be provided.
- 4. Should supply with 5 kg Soda Lime along with machine.