GOVERNMENT OF KARNATAKA
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No. KDL/EQPT/Covid-19/KCG/70/2020-21 Date: 24 /08/2020

INVITATION FOR QUOTATIONS (IFQ) FOR SUPPLY AND INSTALLATION MEDICAL EQUIPMENTS FOR KCG FOR COVID-19 PANDEMIC.

To,

M/s .....

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Sub: Invitation of quotation for Supply and Installation of MEDICAL Equipments for Covid19 Pandemic.

Ref: 1. Quotation Notification No. KDL/EQPT/Covid-19/KCG/70/2020-21, dated: 24.08.2020.

2. ಸರ್ಕಾರಿ ಆದೇಶ ಸಂಖ್ಯೆ ಆಕುಕ 164 ಎಫ್‌ಪಿಇ 2020 ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 21.08.2020.

1) Sealed competitive quotations are invited in Two Cover System (Technical and Financial Separately) by the undersigned for the following items.

Sl. No.	Name of the Item	Specification	No of Qty	Rates per Unit
CATEGORY-A				
1	Multichannel coloured Monitors with ETCO2, 5- parameters smart"	Enclosed	60	
2	Multichannel coloured Monitors with ETCO2, 7- parameters smart"	Enclosed	40	
3	Syringe Pumps	Enclosed	50	
4	Defibrillator	Enclosed	5	
5	ABG Machines	Enclosed	2	
6	Suction Apparatus (Heavy Duty)	Enclosed	30	
7	T-Pieces	Enclosed	1000	
8	ECG Machines	Enclosed	5	

Sl. No.	Name of the Item	Specification	No of Qty	Rates per Unit
9	Portable X-Ray machine	Enclosed	2	
10	Nebulizers	Enclosed	5	
11	Laryngoscope Sets	Enclosed	10	
12	Ambu Bags Adult size	Enclosed	50	
13	BP Apparatus (pedestal)	Enclosed	25	
CATEGORY-B				
1	ICU (fowler) Sots Beds	Enclosed	50	
2	Crash Carts	Enclosed	20	
CATEGORY-C				
1	Linen Gowns	Enclosed	5000	
2	Bed Sheet	Enclosed	5000	
3	Pillow Covers	Enclosed	5000	

Technical Specification for:

CATEGORY-A

1. "**Multichannel coloured Monitors with ETCO2 clinical Bed** side - Multichannel Colour monitors - 15", 5 para & 7 para, Tourch screen with optional (MS software & remote view app) 5- Parameters smart"

2. "**Multichannel coloured Monitors with ETCO2 clinical Bed** side - Multichannel Colour monitors - 15", 5 para & 7 para, Tourch screen with optional (MS software & remote view app) 7- parameters smart"

3. Syringe pumps

Version no. : 2
Date: 13/08/13
Done by : (name / institution) : HCT/ NHSRC
Name And Coding
GMDN name : Syringe pump
GMDN code(s) : CT111

Definition: A device designed to precisely drive the plunger of a syringe down its barrel to infuse a solution when it must be administered with a high degree of volume accuracy and rate consistency. Because of the lower flow settings and flow resolution, it is especially appropriate for neonatal, infant, and critical care applications in which small volumes of concentrated drugs are to be delivered over an extended period. It can also be used to administer epidural analgesia.
General
1. Use
Clinical purpose: Designed to precisely drive the plunger of a syringe down its barrel to infuse a solution when it must be administered with a high degree of volume accuracy and rate consistency.
Used by clinical department/ward: Intensive care unit (ICU), radiology department, orthopedics, emergencies.
Overview of functional requirements: A syringe on training medication securely mounted on the drive arm. Alarms indicate if any error situations occur. The drive arm infuses the medication at a steady, programmed rate.
Technical
2.Technical characteristics
Clinical performances : Should accept all internationally produced/marketed syringes and should be able to detect it automatically, Should support the Bolus supply of drug on press of single button, as per need and should be able to preset different range of Bolus supply. Preferably the unit should be of Bottom/side loaded to avoid accidental spilling of drugs and damage to the machine.
Technical Characteristics (specific to this type of device) :
1. Flow rate programmable range at least from 0.1 to 200 ml/hr, in steps of 0.1 ml/hr; and at least from 100 to 1200 ml/hr in steps of 1 ml/hr
2. Saves last infusion rate even when the AC power is witched off
3. Bolus rate should be programmable to approx 500ml, with infused volume display.
4. Selectable occlusion pressure trigger levels selectable from 300, 500 and 900 mmHg.
5. Must work on commonly available 20ml, 50ml, 60ml and 100 ml syringes
6. Accuracy of ±2% or better.
7. Maximum pressure generated≤20psi
8. Automatic detection of syringe size and proper fixing.
9. Anti-bolus system to reduce pressure on sudden release of occlusion.
10. Pause infusion facility required.
11. Self-check carried out on powering on.
12. Comprehensive alarm package required including: occlusion alarm, near end of infusion pre-alarm and alarm, volume limit pre-alarm and alarm, low battery pre-alarm and alarm, AC power failure, drive disengaged, syringe loading error, maintenance required.
13. Should include KVO (Keep vein open) enabling feature.
It should be an open system compliant.
Settings : Single loadable with one syringe of minimum 20ml.
User's interface : Automatic
Software and/or standard of communication : Inbuilt

3.**Physical Characteristics**
dimensions (metric) : NA
Weight (lbs, kg) : NA
Configuration: Tamper-resistant case made of impact resistant material Securely mountable on tabletop, IV stand or bed fitting.
noise (in dBA) : Noise free
heat dissipation :
mobility, portability : Yes
4. Energy Source (Electricity, UPS)
Voltage (value, AC or DC, monophasic or tri-phase) : 220 to 240V, 50 Hz
Battery operated: Internal rechargeable battery having at 4 to 6 hours backup for 10ml/hr flow rate with 50ml syringe.
tolerance (to variations, shutdowns) : 10%
Protection: Battery powered alarm for power failure or disconnection.
Power consumption : 25W
Other energy supplies : NA
5.**Accessories, Spare parts, Consumables**
Accessories (mandatory, standard, optional): Clamp for mounting pump on IV stand.
Spare parts (main ones) : NA
Consumables (open system): Battery, syringe holder, PMO lines.
Others: NA
Bidding / Procurement terms / Donation requirements
6.**Environmental and departmental considerations**
Atmosphere / ambiance (air conditioning, humidity, dust ...) : Operating condition: – Capable of operating continuously in ambient temperature of 0 to50deg C and relative humidity of 15 to 90% in ideal circumstances.
User's care, Cleaning, disinfection & Sterility issues: Capable of cleaning with alcohol or chlorine wipes.
7.**Standards and safety**
Certificates (pre-market, sanitary,..); Performance and safety standards (specific to the device type) : CE from notified body or FDA certified; Manufacturer / supplier should have ISO 13485 certificate for quality standard. Electrical safety conforms to standards for electrical safety IEC-60601-1, class II Shall meet IEC 60601-1-2 EMC standard requirements. Certified to IEC-60601-2-24: Particular requirements for the safety of infusion pumps and controllers.
8.**Training and installation**
Pre-installation requirements: nature, values, quality, tolerance: Supplier to perform installation, safety and operation checks before handover.
Requirements for sign-off: As per requirement.
Training of staff (medical, paramedical, technicians) : Training of users in operation and basic maintenance shall be provided.
Others: Laminated Standard Operating Procedures to be displayed on the equipment.

9.Warranty and maintenance
Warranty : 3 year
Maintenance tasks: Advanced maintenance and calibration tasks required shall be documented.
Service contract clauses, including prices: Local clinical staff to affirm completion of installation.
10. Documentation
Operating manuals, service manuals, other manuals: User, technical and maintenance manuals to be supplied in English language. List to be provided of equipment and procedures required for local calibration and routine maintenance.
Other accompanying documents: List to be provided of important spares and accessories, with their part numbers and cost. Certificate of calibration and inspection to be provided.
11.Notes
Other information: Contact details of manufacturer supplier and local service agent to be provided.
Recommendations or warnings

4. Defibrillator

Sl. No	**Specification**
1	Definition: A portable electronic device designed to automatically detect cardiac arrhythmias (ventricular fibrillation/pulse less ventricular tachycardia) in a sudden cardiac arrest (SCA) patient, after which it audibly/visually instructs an operator to enable it to activate defibrillation of the heart through application of electrical shocks to the chest surface. The device is intended to be operated by health care professionals (e.g., paramedics, medical staff) in healthcare settings. It consists of an external pulse generator (EPG) and a pair of skin-adhesive electrodes to monitor the rhythm and deliver the shocks; it also includes internal rechargeable batteries that must be charged when not in use.
2	**GENERAL USE**
3	Clinical purpose: To detect cardiac arrhythmias in a sudden cardiac arrest patient, and then
4	Audibly/visually instructs an operator to enable it to activate defibrillation of the heart through application of electrical shocks to the chest surface.
5	Used by clinical department/ward: Emergency/ICU/Cardiac care
6	**TECHNICAL CHARACTERISTICS**
7	Technical characteristics (specific to this type of device):
8	Unit should be lightweight compact and portable.
9	Unit should have facility for Automatic External Defibrillation and manual defibrillation.
10	Should be able to deliver shock from 50-360 joules in biphasic mode via metal chest pads.
11	Should having design protection to avoid passage of current to the user.
12	The whole system should have an inbuilt recorder; TELEMETRY NOTRECOMMENDED.
13	Settings: Manual AND Automatic
14	User's interface: The monitor should have a TFT color display with a three channel display.
15	Software and/or standard of communication (where ever required): Inbuilt
16	**PHYSICAL CHARACTERISTICS**
17	Dimensions (metric): Compact
18	Weight (lbs, kg):<10kg
19	Configuration
20	Noise (in dBA), heat dissipation : <60dBA; adjustable heart rate alarm as well as paddles & ECG cable disconnection alarms.
21	Mobility, portability: Yes
22	**ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2 ....)**
23	Power Requirements: 220 to 240V, 50 Hz.
24	Battery operated: Rechargeable battery backup of approximately 5 hours.
25	Tolerance (to variations, shutdowns):} 10% of input AC.

26	Protection: Electrical protection by resettable over current breakers or replaceable fuses,
27	Fitted in both live and neutral lines.
28	Power consumption: Should not be more than 160 W.
29	**ACCESSORIES, SPARE PARTS, CONSUMABLES**
30	Accessories & Spares: Chest paddles,
31	Consumables / reagents (open, closed system): ECG cable; Recording paper rolls; Disposable pads;
32	**ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS**
33	Atmosphere / Ambiance (air conditioning, humidity, dust ...): Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.
34	User's care, Cleaning, Disinfection & Sterility issues: NA
35	**STANDARDS AND SAFETY**
36	Certifications: FDA, CE; IEC-60601-1-2:2007; IEC 60601-1-8-2006; IEC 60601-1-SER-Ed 1.0-2011; IEC/TRF 60601 - 1-8 Ed4.0 - 2010; ISO 13485.
37	**`TRAINING AND INSTALLATION**
38	Pre-installation requirements: nature, values, and quality, tolerance: Supplier to perform installation, safety and operation checks before handover.
39	Requirements for sign-off: Certificate of Calibration and inspection from the factory.
40	Training of staff (medical, paramedical, technicians):NA
41	**WARRANTY AND MAINTENANCE**
42	Warranty: 3 years
43	Maintenance tasks: Maintenance manual detailing complete maintaining schedule.
44	Service contract clauses, including prices: Local clinical staff to affirm completion of installation.
45	**DOCUMENTATION**
46	Operating manuals, service manuals, other manuals: Advanced maintenance tasks required shall be documented. User, technical and maintenance manuals to be supplied in English language. List to be provided of equipment and procedures required for local calibration and routine maintenance.
47	Other accompanying documents: List to be provided of important spares and accessories, with their part numbers and cost. Certificate of calibration and inspection to be provided.
48	**NOTES**
49	Service Support Contact details (Hierchy Wise; Including a toll free/landline number): Contact details of manufacturer, supplier and local service agent to be provided.
50	Recommendations or warnings: List to be provided of important spares and accessories, with their part numbers and cost. Certificate of calibration and inspection to be provided.

5. ABG machines:

Sl. No.	Specification
1.	**Small, easy to operate and portable system capable of measuring PH, PCo2, Po2, Na+, K+, Ca++, Cl-, Glucose, Lactate, Hematocrit.**
2.	**Calculate parameters cHb, TCO2, BE, BE_{ecf}, cSO2, HCO^{3-}, Anion Gap, A-aDO2,**
3.	Should be able to operate both with AC adapter or battery and should be able to operate during charging.
4.	Input parameters: Age, Gender , Fi02, Temperature
5.	Should be US FDA certified/CE marked
6.	Sample requirement – not more than 125 µl.
7.	The Single-use test cartridges should be self-contained with all the reagents, sensors & calibrating solutions required for running.

8.	The system should not use any other consumable other than test cards and printer paper roll.
9.	System should be provided along with a dedicated wireless (Bluetooth/IR/in-built) Thermal printer.
10.	System should use Amperometric, potentiometric, Conductimetric sensors for measurement.
11.	**The cost of cartridges including all the parameters in single card/multiple cards should be quoted. The card(s) offering the lowest price for all parameters with a workload of 2 samples/day for a period of One year should be quoted. Cost of cartridges including all the parameters for a period of one year at 2 samples per day will be included for the evaluating the financial bid.**
12.	All accessories like chargers, rechargeable batteries etc, should be supplied as per manufacturer's recommendations.
13	Warranty for 3 years shall be provided.

6. Suction apparatus (heavy duty)

Sl No.	Specification
1	**Definition:**
1.1	A portable assembly of devices primarily intended to be used by emergency medical services (EMS) to aspirate fluids, secretions, or other foreign materials from a patient's air way by means of suction. It typically consists of a gas - powered mechanism driven by medical air or oxygen (O2) from a gas cylinder to create the suction (e.g., a venture tube), tubing, a collection container, a vacuum gauge and control knob, and a microbial filter. The pump creates a vacuum in the suction tubing which is used for the removal of materials into the collection container. This system is typically used during patient transport or for emergency situations.
2	**Use**: Clinical purpose To aspirate fluids, secretions, or other foreign materials from a patient's airway by means of suction.
3	Used by All clinical department/ward.
	Technical
4	**Technical characteristics:**
4.1.1	specific to this type of device) 0-700 mm Hg ± 10 regulable, flutter free vacuum control knob, 25ltrs/min, tight fitting jar cap, vacuum capacity; 18 litres / min, maximum depression: -75kPa (-563mmHg).
4.1.2	technical characteristics (continued) Wide mouthed 2 x 2 Ltrs. (Polycarbonate) with self-sealing bungs and mechanical over flow safety device.
4.2	**Settings**
4.2.1	User's interface Manual
4.3	Software and /or standard of communication(where ever required) NA
5	**Physical characteristics**
5.1	dimensions (metric) Max: 43 x 30 x 68 cms
5.2	Weight (lbs, kg) Max: 27Kg
5.3	Configuration : noise (in dBa) 50 dB A ± 3 heat dissipation Should maintain up to36.5deg temp and the heat disbursed through a exhaust fan.
	mobility, portability Yes

5.4	**Energy source** (Electricity, UPS, Solar, Gas, Water, CO2 ....)
5.5	Power Requirements 230 V, 50 Hz, 2 ± 0.5 Amps, 200 watts.Battery operated NA
5.6	Tolerance (to variations, shutdowns) Voltage corrector / stabilizer to allow operation at ± 30% of local rated voltage. Use of SMPS to correct voltage.
5.7	Protection Electrical protection by resettable over current breakers or replaceable fuses fitted in both live and neutral lines.
5.8	Power consumption 200W
5.9	Other energy supplies NA
5.1	**Accessories, Spare parts, Consumables**
5.11	accessories (mandatory, standard, optional);Spare parts (main ones) Autocleavable collection bottles, tapering connector, collection container, a vacuum gauge, lubricant, leak free NR valve and control knob.
5.12	Consumables / reagents (open, closed system) 10 nos. polypropylene microbial filter (size: 0.45 micrometer particle size; 90% filtration), Tair inlet: 8mm(outer diameter 6mm (inner diameter), tubing:8 mm ID x 2 mtr (PVC), polycarbonate jar.
5.13	**Environmental and Departmental considerations atmosphere / ambiance (air conditioning, humidity, dust ...) Operating condition:**
5.14	Capable of operating continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% in ideal circumstances. User's care, Cleaning, disinfection & Sterility issues Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents.
6	**Standards and safety**
6.1	Certificates (pre-market, sanitary,..); Performance and safety standards (specific to the device type) Should be FDA / CE approved product, ISO 13485:2003; ISO 10079-2-1999: Medical Suction equipment - Part 1 : Electrically powered suction equipment- Safety requirements.
7	**Training and installation**
7.1	Pre-installation requirements: nature, values, quality, tolerance Availability of 15 amp socket, Supplier to perform installation, safety and operation checks before handover.
7.2	Requirements for sign-off Certificate of Calibration and inspection from the factory.
7.3	training of staff (medical, paramedical, technicians) Training of users in operation and basic maintenance shall be provided.
8	**Warranty and maintenance**
8.1	Warranty 3 years maintenance tasks Maintenance manual detailing complete maintaining schedule.
8.2	Service contract clauses, including prices Local clinical staff to affirm completion of installation.
9	**Notes**
	Service Support Contact details (Hierarchy Wise; including a toll free/ landline number) Any Contract (AMC/MC/add-hoc) to be declared by the manufacturer. **Recommendations or warnings** Any recommendations for best use and supplementary warning for safety should be declared.
	Warranty for 3 years shall be provided.

7. T-Pieces

Medical Grade Manometer • Accuracy up to 40 cmH2O (+/- 1.6 cm H2O)

• Each manometer to be individually calibrated during manufacturing, ensuring pressure are accurately measured and displayed and consistently delivered. • Fast-acting needle and easy-to-read dial.
PIP Control: Easy to grip knob for adjustment of exact Peak Inspiratory Pressure (PIP).
Convenient Mounting Options: A range of mounting options to be available for bed and pole set ups in L&D and the NICU and on transports and in other departments.
Complete Accessory Range: • Availability of complete range of accessories including gas supply line and full range of infant resuscitation masks. •Ergonomic T-Piece circuit. • 5 Peep facility valve to be included in the circuit.
Maintenance & Operability: • Technical manual with maintenance and first line technical intervention instructions, in English • List of priced accessories • List of priced spare parts • List with name and address of technical service providers in India • Training and installation at end-user site • CE Notified/ FDA/BIS/ISI

8. ECG machines

Sl. No.	Specification
1	**Should be Portable.**
2	The machine should be able to operate on AC mains (120-240 volts) 50-60 Hz
3	Should have auto power shut off facility when not in use.
4	12 channel ECG machine with 12 leads simultaneous acquisition & accurate interpretation facility.
5	**Should have minimum 7 inches Color TFT screen display for waveform monitoring facility.**
6	Machine should have lead Diagram Map (ECG leads conductivity situation show)
7	Machine Should support 210mm and 215mm thermal direct printer without help from another computer printer. Also should able to contact External Printer to support A4 paper output
8	Machine should have Auto Mechanical Calibration System (Hence no paper jam, and auto paper realignment in case of paper shift)
9	Machine should have ECG diagnosis edit before printing
10	Paper speed :5mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s(±2%)
11	Gain:AGC,2.5mm/mV,5mm/mV,10mm/mV,20mm/mV,10/5mm/mV,20/10mm/mV
12	Should have fully alphanumeric key board for entering patient data.
13	Filter: EMG Filter:25Hz/35Hz/45Hz/OFF
	DFT Filter:0.05/0.10/0.2/0.5Hz
	Lowpass Filter:150/100/75Hz
	AC filter:50Hz/60Hz/OFF
14	Internal memory storage at least 300 ECG records
15	Recording mode auto /manual/ rhythm
16	Record format: 3×4、3×4+1R、3×4+3R、6×2、6×2+1R、12×1、12×1+T

17	Rhythm lead: should any lead selectable
18	Interface: USB(data input or output, upgrade), AC power supply socket Ethernet/RS232/ RJ45 Port
19	The Rechargeable lithium-ion battery backup of the machine should be of at least 4000mA
20	Warranty for 3 years shall be provided.

9. Portable X-Ray machine

Sl. No.	Specification
1	X-RAY GENERATOR
a)	**Type: High frequency 3kW or more**
b)	**KV:100**
c)	**mA:100**
2	X-RAY TUBE
a)	Should be of reputed make
3	RADIOGRAPHY
a)	KV range:40-100 or more
b)	mA range: 20 to 60 or more
4	CONTROL PANEL
a)	Digital display of all radiographic parameters
b)	mAs: up to 250mAs or more
c)	Automatic tube over load protection
5	MECHANICAL SPECIFICATIONS
5.1	Spring/Counterbalanced
5.2	Articulated tube arm
5.3	Easy to move and handle
5.4	Light beam diaphragm collimator.
5.5	Extendable hand switch with cable for x-ray exposure.
5.6	Integrated cassette box
6	FEATURES
6.1	The quoted model and tube should be AERB type approved for usage up to 60mA or more. Relevant copies of the certificate should be attached with the bid should be mounted on heavy duty casters.
7	STANDARD ACCESSORIES
7.1	Light weight lead apron 0.5mm lead equivalence with thyroid guard – 1no.
7.2	Light weight latest model cassettes with high speed screen 15x12 – 1 no, 12x10 – 1 no, 10x8 – 1 no.
7.3	Channel type hanger each size 3 nos.
7.4	Lead markers R, L, 0-9 and A-Z each 2 sets.
7.5	Cassette storage box.
8	POWER SUPPLY REQUIREMENTS
8.1	230Vac, Single phase, 50/60 Hz.
9	SPECIFICATION OF LEAD APRON.

9.1	Should be AERB approved.
9.2	Should be light weight 0.5mm lead equivalent.
9.3	Should be hook and loop type (Velcro).
9.4	Should be supplied along with thyroid guard.
10	MECHANICAL SPECIFICATIONS
10.1	Should have wheel braking facility
11	Warranty for 3 years shall be provided.

10. Nebulizers

Sl. No.	Specification
1	Should be with piston compressor pump and silencer.
2	Should have an air flow of 15 ltrs. min at least.
3	Should have a noise level of < 50 dB.
4	Should have a breathable fraction of 84 to 86%.
5	Should have a maximum rate of Nebulization of 0.42 to 0.48 ml/min.
6	Should have residues up to max 0.4ml for a compressing flow of 8 ltr / min.
7	Should have double venture effect design to support delivery of design to support delivery of fast treatment.
8	Should have Andy flow to permit, specific therapy of the respiratory infection.
9	Should be suitable for all ages.
10	Should be easy to operate with simpler design.
11	Should have a flow regulation valve to vary the breathable flow suiting it for the respiratory functionalities of the patient.
12	Should have a choice of Pisper to treat different tracts of the respiratory system.
13	Should be supplied with following Standard Accessories
a.	Nebulising bulb with mouth piece - 2 Nos.
b.	Nasal Prong - 2 Nos
c.	Adult Mask - 3 Nos.
d.	Connection Tubing - 4 Sets.
e.	Filter - 2 Nos.
f.	Pispers - 3 Nos.
14	The Equipment Should be BE/ CE / FDA Certified.

11. Laryngoscope sets

	Version no. : 2
	Date: 13/08/13
	Done by : (name / institution) :: HCT/ NHSRC
	Name And Coding
	GMDN name :: Laryngoscopes
	GMDN code(s) :: CT 1723

	Definition: A hand-held device (i.e., non-endoscopic rigid type) intended to be used by anesthesia/emergency service personnel to manipulate the tongue, preventing it from obstructing the oropharynx and enabling a clear view of the trachea for the insertion of an end tracheal (ET) tube prior to the delivery of inhalation anesthesia and/or ventilation. It has a handle containing batteries to power its light (a small built-in light bulb or fibrotic light) for airway illumination, and a curved or straight blade of various designs and lengths that can be hinged/ interchanged or integral. Some types can be magnetic resonance imaging (MRI) compatible. This is a reusable device to access respiratory status of a patient, and to help in the treatment evaluation of patients suffering from chronic respiratory and /or acute disorders (e.g., asthma, emphysema).
	General
	1. Use
1	Clinical purpose: For viewing vocal folds and glottis. Surgical and mechanical ventilation/ intubation.
2	Used by clinical department/ward: O.T / ICU / NICU/ Causality
3	Overview of functional requirements: A light source on or via the blade illuminates the larynx to allow viewing and tube passage. The unit is hand held with internal batteries and has interchangeable, rigid blades of different sizes.
	Technical
	2.Technical characteristics
1	Technical characteristics (specific to this type of device): Fiber optic Laryngoscope-preferably should be single patient use to ensure no infection to the patients, should comprise of disposable handle and reusable light source using the latest LED technology. The main body of the handle should incorporate an excellent grip & should feel even wear a glove. There should be a freely moving light intensifier of light from the light source through to the tip of the fiber optic blade to prevent any possibility of cross contamination.
2	Settings :: NA
3	User's interface :: Manual
4	Software and/or standard of communication(where ever required) :: NA
	3.Physical Characteristics
1	dimensions (metric) : NA
2	Weight (lbs, kg) :: Light weight
3	Configuration: 1. Handheld unit, single piece when in use.
4	On/off switch to be robust and easy to use.
5	External material to be non-ferrous.
6	Blades to be surgical grade stainless steel.
7	Supplied in protective, reclosable container
8	noise (in dBa), heat dissipation :: NA
9	mobility, portability: Yes
10	Others : storage box should be provided
	4. Energy source (electricity, UPS, Solar, Gas, Water, CO2 ....)
1	Power Requirements: Independent of external source.
2	Battery operated: Internal batteries, rechargeable preferred/ Penlight battery AA size,
3	Battery charger (if rechargeable), Battery compartment (if reusable) to be sealed against liquid ingress, yet easily opened.
4	tolerance (to variations, shutdowns) : NA
5	Protection :: NA
6	Power consumption : 3V lithium battery
7	Other energy supplies ::

	5.Accessories, Spare parts, Consumables
1	Accessories (mandatory, standard, optional): Batteries, light source, blades of various neonatal sizes.
2	Spare parts (main ones) :: Handle
3	Consumables / reagents (open, closed system) :: 5 LED should be given as spare
	6.Environmental and departmental considerations
1	atmosphere/ambiance (air conditioning, humidity, dust...):Operating condition: – Capable of operating continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% in ideal circumstances. –an ambient air velocity is less than 0.3 m/s. Liquid splash resistant blades should be Autocleavable.
2	User's care, Cleaning, disinfection & Sterility issues :: Should be Autocleavable
	7.Standards and safety
1	Certificates (pre-market, sanitary,..); Performance and safety standards (specific to the device type); Local and/or international :: ISO7376 standard Manufacturer / supplier should have ISO certificate for quality standard. The lithium battery should comply to IEC 62133 or its equivalent. The device should meet IEC 60601-1, IEC 60601-2 standard requirements. Should be FDA / CE approved product.
	8.Training and installation
1	Pre-installation requirements: nature, values, quality, tolerance :: NA
2	Requirements for sign-off :: NA
3	Training of staff (medical, paramedical, technicians): Training of users in operation and basic maintenance shall be provided.
	9. Warranty and maintenance
1	Warranty :: 3 years ; LED up to 6 months
2	maintenance tasks :: Autoclave
3	Service contract clauses, including prices :: NA
	10. Documentation
1	Operating manuals, service manuals, other manuals: User, technical and maintenance manual strobe supplied in English language. Certificate of calibration and inspection to be provided.
2	List to be provided of equipment and procedures required for local calibration and routine maintenance. List to be provided of important spares and accessories, with their part numbers and cost. Contact details of manufacturer, supplier and local service agent to be provided.
3	Other accompanying documents :: Service manuals
	Notes
1	Service Support Contact details (Hierarchy Wise; including a toll free/ landline number): Any Contract (AMC/MC/add-hoc) to be declared by the manufacturer.
2	Recommendations or warnings: Any recommendations for best use and supplementary warning for safety should be declared.

12. Ambu bags Adult size

Sl. No.	Specification
1	500ml Self Inflating Double Ended Silicone Bag with Mounts
2	Side Feed Oxygen Inlet
3	Type "L" Non-Rebreathing Valve with Pressure Limiting Device 40cms of water

4	Size Oa Circular Paedi All Silicone Facemask
5	Reservoir Hose with Adaptor to Provide Higher Oxygen & 1.5mtrs Oxygen Enrichment Tubing
6	Carrying case

13. BP Apparatus (pedestal)

1. Should be portable mercurial type, stand model.
2. Should have ISI mark.
3. Should have ON and OFF provision for mercury reservoir.
4. Should have a measuring range from 0 to 300 mmHg.
5. Should be provided with adult arm cuffs of size medium & large and pediatric cuff,
6. The control valve should have a knurled thumb control device. The leak rate should not exceed 10 mm of mercury per minute.
7. The manometer scale markings and graduations should be engraved or etched and filled with pigments and it should meet the requirements of boil test.
8. The internal diameter of the manometer glass tube should be 4.1 ± 0.1 mm and the thickness not less than 2 mm.
9. Plastic parts, if any used should not crack, flake, peel or disintegrate innormal use.
10. The inflating rubber bag should be capable of withstanding an internal pressure of 450 mmHg without leaking.
11. The inflating bulb should be soft and should not have any joints or ridges.
12. The mercury used should be clean, double distilled and of 99.9% purity.
13. The fastening arrangements of the cuff should be of hook and loop type (Velcro)
14. The threading and fastening arrangement of the cuff should show no sign of slip or failure when subjected to the maximum conditions.
15. The rubber tubes used should have an internal diameter of 3 ± 0.5 mm and the external diameter should not be less than 8mm.
16. The housing case should be of robost design. It should have press to release lock. It should have metal hinges. The tube should be secured with metal screws and clamps. It should have mechanism to hold the lid in right angles and should prevent accidental dropping. All parts should be replacable in case of breakage.
17. A cleaning brush to clean the manometer tube and a set of spare washers may be provided with each unit.
18. Should be mounted on good quality wheels.
19. The stand body shall be made of mild steel and powder coated.

CATEGORY-B

1. ICU (fowler) cots beds :

Fowler Cot

Sl. No.	Specification
1	Size-Length 78" x Width 36" x Height is fixed to 24" which is not adjustable, 16 SWG CRCA Sheets
2	Four section table top (perforated). Separate Mechanism to adjust backrest and knee rest adjustment. Head bow 50" x 36". Leg bow 40"x 36" of 1 ¼" ERW 16 gauge Tub.
3	Pipe Suitable ½" Tub-3 Nos. of vertical support on both bows. 1" Tub. ERW 16 gauge horizontal tubular supports for both head and leg bows. Provisions to fix IV rod and Mosquito curtain.
4	Epoxy powder coating with 7 tank process, Seamen's Grey colour with minimum 50 microns.
5	One number IV rod of SS 304 length 48'' height to be supplied along with the cot.

6	ISO/ISI/CE/FDA Certified
7	1 year Warranty period shall be provided.
8	Should be provided with high quality suitable mattress of at least 4 inches thick PU foam of 40 density covered with soft water proof material, bacteriostatic & pillow

2. Crash Carts

Sl. No.	Specification
1	Trolley with 25 mm diameter SS tubular frame
2	Drawers should be 6 number possible of adequate size
3	Size – 36 inch L x 20 inch W x 60 inch H.
4	Flat surfaces should be stainless steel.
5	Two rows of hand out bins of different size & color to hold different sizes
6	Light weight plastic box with drawers of different sizes and colors to hold emergency
7	Facility to carry monitor and Defibrillator
8	Stainless steel saline rod-one.
9	Castor wheels of 12.5 cm dia- Two having locking arrangement.
10	Pull out cardiac massage board above drawers.
11	All parts should be epoxy polyester coated with 50 micron thickness approx. ebonite
12	Should be nylon castor wheel
13	Whole crash cart should be washable.
14	ISO/ISI/CE/FDA Certified
15	1 year Warranty period shall be provided.

CATEGORY-C

1. Linen - Gowns

2. Bed Sheet

Sl. No.	Specification
1	27.1 Size 90" x 60" pure cotton 20s x 20s quality bed spread of blue/green colore Pillow Cover.
	ISO/ISI Certified

3. Pillow covers

Sl. No.	Specification
1	Pillows cover: Size: 30" x 16" x 5".
2	Rubberized coir pillow with inner cover white sheeting cloth and Outer cover.
3	S.T. quality green drill back rexene cover.
	ISO/ISI Certified

1. **Delivery Schedule**

Sl.No	Days	Quantity

2) Quoted Price:

a) The quotation shall be submitted in the name of Director KSDLWS, No.1, Dr. Siddaiah Puranik Road, KHB Colony, Magadi Road, Bengaluru – 560079.

b) All duties, taxes and other levies payable by the tenderer (including GST) shall be included in the item rate.

c) The rates quoted for each item shall be fixed for the duration of the contract and shall not be subject to any adjustment.

d) Rates for supply of partial quantity of an item is not acceptable.

e) The rates quoted shall be inclusive of supply and installation of the items at various health Institutions across Karnataka.

f) Corrections if any shall be made by crossing out, initialing, dating and rewriting.

g) Cable or Facsimile quotations are not acceptable.

3) Each tenderer must submit only one quotation.

4) Validity of quotations:

a) The quoted rates shall remain valid for a period not less than 30 days from the issue of Notification of Award.

5) Evaluation of quotations:

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e., which are properly signed, and conform to the terms and conditions and specifications in the following manner:

a) Technical evaluation will be done by a technical committee and financial bids of only those firms/bidders who qualify will be opened.

b) The evaluation will be done including all taxes. If the tenderer has not included the taxes in his quotation for the item rate, and has also not indicated the rate of taxes applicable, the quoted rate will treated as though it is inclusive of taxes and no extra payment for taxes will be made;

6) Contract:

a) Warranty shall be applicable to the supplied goods and services;

b) Payment shall be made after the delivery of the goods and their acceptance.

c) Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the quotation process and reject all quotations at any time of prior to issuing supply order.

d) Bid inviting authority reserves the right to award a part of the bid quantity to L2, L3 if they match L1 price to ensure early supplies or in case L1 fails to supply the goods as per the delivery schedule mandated in this IFQ.

7) Supply Period

a. The supply shall be completed within 7 Days from the date of issue of supply order. Otherwise the supply order remains cancelled.

8) If the supplier fails to supply within the stipulated period her/his order stands cancelled and their SD will be forfeited.

9) Terms and Condition

a) Contract to be signed on a Stamp Paper with a minimum value of Rs. 200/-.
b) Submit copies of Latest/Previous Purchase Order/Supply Order received from any State/Union Tertiary/Corporation/Government or Private Institutions supplied for the same items.
c) Pre and Post Dispatch inspection.
d) Manufacturing/import license By Concerned Authorities Should be Submitted.
e) Dealer Should Submit Authorization letter from Manufacturer/ Importer.
f) USFDA/CE/ISO Certificates.
g) GST Registration of the Firm.
h) Bidder should have minimum Annual Turnover of 50 Lakhs and should submit Annual Returns filed for the Preceding Three Financial Years.
i) Brochures, Certificates and Manuals should be submitted.
j) 5% of the order value should be submitted as Security Deposit in the form of Demand Draft.
k) Bidder should specify the quantity available at their disposal.
l) Quotation processing fee 1000+18% GST should be submitted along with quotation. (By Demand Draft (not refundable) drawn in favor of the Additional Director, Karnataka State Drugs Logistics & Warehousing Society (Regd.) payable at Bengaluru or A/c No-1672104000074740, Bank Name-IDBI Bank, Branch Name-Vijayanagar Branch)
m) Service centre details established in Karnataka.
n) Warranty for 3 years (where applicable) shall be provided.

10) FALL CLAUSES

a) The price quoted shall not in any case exceed the maximum wholesale ceiling price (bulk), if any, fixed by the Govt. of India / NPPA / State Government or the Whole Sale price fixed by the bidder for General Market. The Bidder shall mention such fixed rates in the quotation sheet against each item quoted.
b) The rate quoted for the Drug supplied under this Contract, in no event shall be more than the lowest price quoted at which the contractor sells his products of identical description to any other persons, State, Union territory, Corporation, Board, University, Trust, Local authority, Company or any others including his own dealer, distributor, stockiest, agent during the period of the currency of contract.
c) If at any time during the period of contract, the contractor reduces the sale price of such products to any other persons, State, Union territory, Corporation, Board, University, Trust, Local authority, Company or any others including his own dealer, distributor, stockist, agent during the period of the currency of rate contract at a price lower than the price quoted in this contract, he shall forthwith

notify such reduction or sale to the Director Karnataka State Drugs Logistics & Warehousing Society(Regd.), Bangalore. The price payable under this contract shall correspondingly be reduced to the same extent as was sold to such others. Under no circumstances the rate quoted shall be higher than the price notified under Drug Price Control Order issued from time to time.

d) Failure to notify the Purchaser to pass on such benefits due to decrease in existing tax structure (Wherever applicable) Exemption accorded shall entail disqualification of the Contractor and forfeiture of the Security Deposit due if any and the firm will be Blacklisted.

e) The order stands cancelled after the expiration of delivery period, and if the extension is not granted with or without liquidated damages. Apart from risk/alternate purchase action, the Bidder shall also suffer forfeiture of the Security Deposit and shall invite other penal action like blacklisting/Debarring disqualification from participating in present and future Bids of Bid Inviting Authority/ordering authority.

f) It shall be the responsibility of the supplier for any shortage/damage at the time of receipt at the designated places.

11) Last date and time of receipt of quotations (Can be submitted both by mail and Drop in box:

Online:

1. Convert your KSDLWS Quotation document to Password protected PDF file as follows.
    a. Upload your final Quotation PDF document in the below link https://smallpdf.com/protect-pdf
    b. Choose file (for uploading documents)
    c. Type your password and Retype your password.
    d. Click Encrypt file.
    e. Download your password protected PDF.
    f. Send your quotations to ksdlwscovid19.procurement@gmail.com mail id quotations sent on other mail id's will not be considered.
    g. Share your password after the due date.

OR

Physical submission of sealed quotations at KSDLWS Drop in box superscripted on the envelope as **"Quotations for the Supply & Installation of Equipments due on 29/08/2020" latest by 17.00 hours on 29/08/2020.**

Commissioner
Food Safety and Standard Authority and Director,
KSDLWS Bengaluru