महाराष्ट्र शासन
शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, मिरज जि.सांगली
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जा.क्र./शावैमरुमि/भांडार/दरपत्रके/ ६३६९ /२०२१ दिनांक:- २५ /०८/२०२१

संस्थेच्या संकेतस्थळावर जाहिरात प्रसिध्द करुन ऑनलाईन दरपत्रके मागणी

विषय:- लहान मुलांचा व नवजात शिशु कोविड अतिदक्षता विभाग चालू करणेसाठी अत्यावश्यक असणाऱ्या यंत्रसामुग्री खरेदी करणेसाठी दरपत्रके मागविणेबाबत...

या संस्थेतील बालरोगचिकित्साशास्त्र विभागांर्तगत लहान मुलांचा व नवजात शिशु कोविड अतिदक्षता विभागासाठी खालील दिलेल्या तक्त्यात नमुद केल्याप्रमाणे दर्शविण्यात आलेल्या यंत्रसामुग्रीचे दर सर्व करासह तात्काळ नमूद करावेत (सर्व करासह:-जी.एस.टी. व इतर चार्जेससह) तसेच दर्शविण्यात आलेले दर बाजार भावाशी निगडीत व कमीत कमी असावेत.

अ.क्र.	यंत्रसामुग्रीचे नाव	प्रति नग	दर सर्वकरासहित (जी.एस.टी)
1	SYRINGE PUMPS		
2	SUCTION Machine (Electric)		
3	PULSEOXIMETER MONITORS		
4	FINGER PULSEOXIMETER		
5	ECG Machine COMPUTERISED (Pediatrics) (12 Lead)		
6	RADIANT WARMER		
7	PHOTOTHERAPY UNITS		
8	DEFIBRILATOR		

सदर दरपत्रका सोबत नमूद केलेल्या यंत्रसामुग्रीचे माहिती पत्रके, कॅटलॉग इ.जोडावेत.सदर दरपत्रक हे सहा महिन्यासाठी ग्राहय असतील असे भरावेत.सदर दरपत्रक या कार्यालयास दिनांक: ३१/०८/२०२१ सायं.५ वाजेपर्यंत पोहचणे आवश्यक आहे.दरपत्रकाच्या लिफाप्यावर वरील **" यंत्रसामुग्री व साधनसामुग्री चे नाव नमुद करावे "** दरपत्रक अंतिम दिनांक: ३१/०८/२०२१ असे नमूद व सिलबंद करुन खालील पत्त्यावर पाठवावे." अधिष्ठाता, शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, मिरज-४१६४१० पंढरपूर रोड, जि.सांगली."

दरपत्रक मागवितांना खालील अटी व शर्ती लागू राहतील.

१) सदरचे यंत्र ज्या विभागाचे आहे त्यांनी दिलेल्या स्पेसिफीकेशन प्रमाणे यंत्र असणे आवश्यक आहे. सदर यंत्राचा दर्जा उत्तम व टिकाऊ असावा.
२) यंत्राचे प्रात्यक्षिक वापर करण्याऱ्या विभागाने घेतल्यानंतरच त्यांचा अहवाल समाधानकारक प्राप्त झाल्यावर पुरवठा ऑर्डर देण्यात येईल.
३) सदर यंत्र हे कंपनीकडील मानांकित प्रतीची असावी.
४) सदरचे यंत्राचा वॉरंटी व गॅरन्टी कालावधी नमुद करणे बंधनकारक राहील.
५) वरील यंत्राची कंपनी,मॉडेल व बुकलेट दरपत्रकासोबत पाठविणे बंधनकारक आहे.
६) सदर यंत्राचे दर हे कमीत कमी असावेत व उत्तम दर्जाचे असावे.
७) सदर यंत्राचे दर हे सर्व करासह नमुद करावेत.
८) अधिष्ठाता, शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, मिरज, यांनी कोणतीही दरपत्रक कारण न दर्शविता स्विकारण्याचा अथवा नाकारण्याचा अधिकार राखून ठेवलेले आहेत.

अधिष्ठाता,
शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, मिरज

प्रत- Spark Technologies Ltd. Krishna Smruti, Flat No. 6 Govt. Colony,Near Purva Garden Hotel Vishrambagh ,Sangli २/ आपणास कळविण्यात येते की,या संस्थेची वेबसाईटचे कामकाज करणेचे देखभाल आपण करीत असून वरील यंत्रसामुग्री खरेदी दरपत्रकाची मागणीची जाहीरात संस्थेच्या www.gmcmiraj.edu.co.in या संकेतस्थळावर अपलोड करण्यात यावी. व त्याबाबतचा अहवाल या संस्थेस सादर करावा.

syringe infusion pump

PHYSICAL SPECIFICATION

Product Type	Front Loading Syringe Infusion pump
Pumping Mechanism	Lead screw mechanism
Dimension	170mm (W) x 183mm (L) x 115mm (H)
Weight	1.8 Kgs
Display Size & Type	135mm x 21mm CSTN LCD Display
Parameters Displayed	Syringe size, Syringe Brand, Set Flow Rate Infused Volume, Occlusion level, Battery life Alarms & Indicators
Keypad	Capacitive touch screen keypad
Fixation	Allows Horizontal and Vertical Mounting
Stackability	For interlocking of two or more units
Power Source	110/220 VCA (+/- 20%), 50/60 Hz, 12 VA
Battery	4.8 V rechargeable NiMh Capacity minimum 4hrs @ 5ml/hr * Recharging time 16 hrs
Operating Temp.	05° to 40 °C
Relative Humidity	15 to 90 % (no condensation)
Atmospheric Pressure	70 to 106 Kpa

BASIC INFUSION CONTROLS

Syringe Capacity	5, 10, 20, 30, 50/60 and 100 CC Auto Detection
Syringe Brands	Dispovan, BBraun Perfusor, BD Precise, Plastipak Romson & Sisco (Provision add 12 more brands)
Flow Rate	0.1 to 1200 ml/hr (Increment in step of 0.1ml/hr) Facility for Online titration
Purge	Upto 1200 ml/hr
Bolus Rate	Upto 1200 ml/hr
Bolus Volume	Settable (pre-set)
KVO / KOR	1% of the set rate or minimum of 0.1 ml/hr
Mechanical Accuracy	+/- 1%
Overall Accuracy	+/- 2% (Measured Time > 1Hr, min 0.2 ml excluding syringe tolerances) (Measured as per IEC 60601-2-24)

PRESSURE MANAGEMENT

Pressure Limits	Low 0.4 kg/cm² (300 mmHg) Mid 0.8 kg/cm² (600 mmHg) High 1.2 kg/cm² (900 mmHg)
Tolerance	+/- 20%
Anti-bolus System	Reduces significantly bolus after occlusion release (Measured as per IEC 60601-2-24)

PRE ALARMS/ ALARMS/ SECURITY FEATURES

Alarms	All the alarms are expressed by means of flashing message/symbol on the display and sound beep
Syringe Detection	Syringe Dislocated, Drive Disengaged, Patient Line Disconnection, Plunger Disengaged
Device Control	No Mains, Battery pre-alarm & Alarm, Idle Technical Malfunction
Infusion Control	Occlusion, Infusion End pre-alarm & ~~~ KVO/KOR, Syringe

STANDARD ACCESSORIES

Unit with pole clamp, power cord & operating manual

OPTIONAL FEATURE

Power Source	External power 12 VDC converter (For Ambulatory supply)
Battery Life	Upgradable to 5 hr / 10 hr @ 5 ml/hr
Stackability	Multiple inputs AC cord for upto 8 pumps
Communication	RS232 port
Other	Nurse call attachment

QUALITY STANDARD

Quality Management	ISO 9001: 2008 & ISO 13485: 2003
Moisture Protection	IP24 as per IEC 60529 (Splash Proof)
Electrical Safety	Class II, Type CF
Conformity Standards	IEC 60601-1 & IEC 60601-2-[illegible]

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SUCTION APPARATUS

TECHNICAL SPECIFICATIONS

1. Volt- 230 Vac
2. Rating of Motor- continuous
3. Suction Bottle Capacity- 2 x 2000 ml minimum (with safety valve)
4. Guage- 0 to760 mm Hg
5. Pump- Oil lubricates rotary pump
6. Suction Tubings- ID 7 mm, 5m long and non-collapsible.
7. Should have air tight lids.
8. Should have a noiseless Operation
9. Should provide filter to absorb moisture and water particles entering into the rotor.
10. Should have an external provision for topping up of lubricant.
11. Should be well-designed, cabinet made of mild steel powder coated
12. Should bear ISI mark

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ANNEXURE TO TENDER NO. DPS/MRPU/GSO/MEDN/11334

SPECIFICATION FOR PULSE OXIMETER:

- Should have plethismographic wave form with numeric display for SPO2 and Heart rate on LCD/TFT display.
- Should have a SPO2 range of 0 to 100%.
- Should have SPO2 accuracy of ±2%.
- Should provide bar graph for pulse strength.
- Audio and visual alarm for both upper and lower SPO2, Heart rate.
- Should provide with PAEDIATRIC reusable finger probe with technology from standard reputed companies..
- Beep sound and alarm sound should have separate volume control
- Should have a minimum of 2 hours back-up time.
- Should be a portable, light weight and desktop model.
- 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.

Note:-

- Warranty:- Minimum of one year.
- Acceptance will be provided after using the product for a period of one week.

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Name of the equipment: 12 LEAD ECG MACHINE –

Technical Specifications of 12 Lead ECG Machine

Description of Function:

ECG Machine is a primary equipment to record ECG Signal in various configurations.12 channels with interpretation is required for recording and analysing the waveforms with an inbuilt software.

Operational Requirements

1. The ECG Machine should be able to acquire all 12 Leads simultaneously and interpret them.

Technical Specifications

1. Should acquire simultaneous 12 lead ECG for both neontal and paediatric patients.
2. Should have Real time Colour display of ECG waveforms with signal quality indication for each lead.
3. Should have Artefact, AC, and low and high pass frequency filters.
4. Should have a storage memory of at least 100 ECGs with easy transfer by modem and data card.
5. Should have full screen preview of ECG report for quality assessment checks prior to print.
6. Should have interpretation facility of the amplitudes, durations and morphologies of ECG waveforms and associated rhythm for neonatal and paediatric patients.
7. Should have alphanumeric Keyboard for patient data Entry. (Virtual or hard keys).
8. Should have High resolution (200 dpix500dpi on 25 mm/sec speed) digital array A4 size printer.
9. Should have report formats of 3 x4; 6 x2, Rhythm for up to 12 selected leads; 12 Lead Extended measurements, 1 minute of continuous waveform data for 1 selected lead.
10. Should have battery capacity of at least 30 ECGs or 30 minutes of continuous rhythm recording on single charge.
11. Should be able to be connected to HIS /LAN/Wireless LAN
12. Should display ECG on LCD/TFT Display of 640x480 pixel resolution.
13. USB Support for Storage on external portable memories.
14. 14. .Multimode of ECG Storage capability, 150 ECG on Internal Flash Memory

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System Configuration Accessories, spares and consumables:

1. ECG Machine 12 Leads with Interpretation
2. Patient Cable
3. Chest Electrodes Paediatric (set of six) -02 sets and Neonatal
4. Limb Electrodes (set of 4) 02 sets of Paediatrics and 02 sets of neonatal
5. Thermal Paper A4 Size for 500 patients

Environmental factors:

1. The unit shall be capable of being stored continuously in ambient temperature of 0 - 50deg C and relative humidity of 15 -90%
2. The unit shall be capable of operating continuously in ambient temperature of 10 - 50deg C and relative humidity of 15 - 90%
3. Shall meet IEC - 60601-1- 2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMCdirective.

Power Supply:

1. Power input to be 220 - 240VAC, 50Hz fitted with Indian plug

Standards, Safety and Training:

1. Should be US FDA and European CE, approved product
2. Electrical safety conforms to standards for electrical safety IEC – 60601 -1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms.(OR EQUIVALENT BIS Standard

Documentation:

1.User Manual in English

2.Service manual in English

3.List of important spare parts and accessories with their part number and costing

4.Certificate of calibration and inspection.

5.Log book with instruction for daily,weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out

6.List of Equipment available for providing calibration and routine Preventive Maintenance Support. As per manufacturer documentation in service/technical manual.

WARRANTY:

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1.The Equipment should be under WARRANTY for a period of THREE YEARS after successful commissioning.

2.Comprehensive maintenance contract rates for 5 YEARS after warranty must be quoted and these would be taken into consideration while comparing price bids.

3.All essential spare parts should be made available with the local service centre during the WARRANTY period and all steps should be taken for immediate servicing to prevent down time.

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Radiant Heat Warmer
Series 5000

- Mobile new born resuscitation table - Fixed height
- Skin, Air, Manual and Pre-Warm control modes
- Microprocessor based controller with highly accurate Thermistor sensors (No Calibration required)
- LCD for alarm messages
- APGAR (Up) and Down Timer
- Ceramic heater with reflector and safety grill
- Patient examination lamp for extra illumination during procedure
- Stainless Steel Baby bed with Baby Mattress (density approx. 21-25 kg/m³) with waterproof, zipped cover
- Continuous variable head up/down facility
- Polycarbonate side panels collapsible/lockable
- X-ray cassette holder tray underneath baby bed
- Facility to attach syringe/infusion pump, shelf to place monitor
- SS multi hook IV stand
- Facility to incorporate Under Surface Phototherapy
- Mounted on 4 swivel castors (100 mm), 2 with brake

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Product complies with: IEC 60601-1 IEC 60601-1-2 IEC60601-2-21ISO 10993-5

RHW5002A

Radiant Heat Warmer with Fixed Cradle (Skin/Air/Manual/Prewarm)

Specifications:

Electrical Specifications:

- Microprocessor based temperature controller with Pre-warm, Manual and Skin Servo modes
- LED Display of Skin Temp.,Air Temp., Set Temp. (Resolution 0.1°C) & Heater Power %
- LCD to display modes of operation, Alarm messages, Skin Temperature in °F and Timer
- Thermistor based sensor with Accuracy of +/- 0.2°C (Temp. Calibration not require)
- Modes of Operation: Skin Servo, Air, Manual and Pre-Warm
- Keypad lock facility
- Skin mode: Temperature range: 34 to 38°C , Resolution : 0.1°C
- Air mode: Temperature range: Room temp. to 39°C , Resolution : 0.1°C
- Manual mode: Adjustable Heater Power 0 to 100% (with an increment of 5%), Time duration:15mins
- Pre-warm mode: To pre-warm the cradle before baby is placed on the bed. (No alarm activated) Adjustable Heater Power 0 to 25% (with an increment of 5%), Time duration:30mins
- Overhead heater box: Swivelling, Consists of Ceramic heater (650 Watts) placed in parabolic reflector with a safety grill & Halogen observation light (12V/50W) for observing the baby
- Operating Voltage: 220-240 VAC, 50Hz
- Power: 800W (Max.)
- Power Fail Alarm: Audio with LED indicator
- Alarm: Audio alarm with 10 minute mute facility & Visual alarms with message on LCD are as follows

Alarm Condition	Alarm Messages on LCD
Skin Sensor is unplugged /Faulty	SKIN SENSOR FAIL
Air Sensor is unplugged /Faulty	AIR SENSOR FAIL
Measured skin temperature higher than set temperature by 1.0°C	SKIN TEMP. HIGH
Measured skin temperature lower than set temperature by 1.0°C	SKIN TEMP. LOW
Measured skin temperature higher than 38.0°C (With cut-off)	SKIN OVER RANGE
Measured skin temperature lower than 34.0°C	SKIN UNDER RANGE
Measured air temperature higher than set temperature by 1.5°C	AIR TEMP. HIGH
Measured air temperature lower than set temperature by 3.0°C	AIR TEMP. LOW
Measured air temperature higher than 39.0°C (With cut-off)	AIR OVER RANGE
Heater power is 100% for more than 15mins	CHK SENS POSITION
Heater is unplugged or faulty	HEATER OPEN
Heater Power drive fail/uncontrollable	CHK. PWR. DRIVE

Mechanical Specifications:

- Fixed baby cradle mounted on 4" wheel
- Stainless steel baby tray with water proof, zipped cover mattress of density approx. 21-25 kg/m^3
- Continuous head up/down facility
- X-Ray cassette holder
- Collapsible/lockable side panel made up of Unbreakable polycarbonate,
- Slots are available sensor and ventilator tubing
- Side tray for placement of monitor
- Under table 3 storage drawers (Non-metallic, removable and washable)
- Stainless steel infusion rod with facility to mount Syringe/infusion pump
- Lower shelf below baby tray to facilitate under surface phototherapy

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अनुक्रमांक (2)

LED Phototherapy

Specification

LED Phototherapy Stand (PT6001)

- Heavy duty mobile stand phototherapy unit
- Fire retardant enclosure for light source
- Light source height adjustment approx. 0.95 m to 1.5 m
- Light source tilt - continuous upto +/- 90°
- Source cooling fan
- Therapeutic high wattage blue LEDs (12 nos.)
- Wavelength – 455 to 465nm
- High irradiance at skin level up to 55 $\mu w/cm^2/nm$
- Effective surface area 50 cm x 30 cm at 45/35 cm from light source with uniformity ratio of > 0.40
- LED Lamps rated to last upto 50,000 hrs (with 30% depreciation)
- Dual digital cumulative hour timer for LED usage and patient exposure
- Mounted on 2" castors

LED Under Surface Phototherapy (PT6005)

- Detachable fire retardant enclosure for light source
- Source cooling fan
- Therapeutic high wattage blue LEDs (8 nos.)
- Wavelength – 455 to 465nm
- High irradiance at skin level up to 55 $\mu w/cm^2/nm$ at 27 cm
- Effective surface area with uniformity ratio of > 0.40
- LED Lamps rated to last upto 50,000 hrs (with 30% depreciation)
- Dual digital cumulative hour timer for LED usage and patient exposure

Infant Care Trolley (ICT6001)

- Mobile basinet cot for neonates
- Stainless steel baby bed with collapsible side poly-carbonate (unbreakable) panels, X-ray cassette holder and mattress
- Continuous variable head up/down facility
- Shelf below baby tray for under surface phototherapy storage
- Mounted on 4" castors

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SPECIFICATION FOR DEFIBRILLATOR

1) Description of Function

Defibrillator is required for reviving the heart functions by providing selected quantum of electrical shocks with facility for monitoring vital parameters.

2) Operational Requirements

Should be compact, Light weight, easy to use, Bi-Phasic Defibrillator with Manual (with easy 1-2-3 operation)
Should monitor ECG and display them
Should be able to print the ECG on thermal papers
Should be capable of doing synchronized cardio version
Can be operated from mains as well as battery

3) Technical Specifications

Should be a Low Energy Biphasic defibrillator monitor with Recorder, having capability to deliver shocks from 2 Joules to 200 Joules.
Should monitor ECG through paddles, pads and monitoring electrodes and Defibrillate through pads and paddles.
Should compensate for body impedance for a range of 25 to 150 ohms
Should have a built in 50 mm strip printer
Should have charging time of less than 5 seconds for maximum energy.
Should have High resolution more than 8 inch Colour display for viewing monitoring parameters like ECG, SpO2, NIBP and etCO2 with 4 waveform capability of 4 seconds.
Both Adult and pediatric paddles should be available.
Should have event summary facility for recording and printing at least 55 events.
Should have a battery capable of usage for at least 5 hours of monitoring.
Should be capable of printing Reports on Event summary, configuration, self test, battery capacity etc.
Should have facility for self test/check before usage and set up function.
Should have facility to monitor parameters like SpO2, NIBP and etCO2 along with non invasive pacing (Demand & Fixed mode) facility.
Should be able to upgrade the defibrillator for 12 lead ECG monitoring and ECG transmission.

4) System Configuration Accessories, spares and consumables

Defibrillator with AED and External Pacemaker – 01
Adult with Built in Paediatric External Paddles - 01
Patient cables - 01
ECG Rolls – 50
Adult SpO2 reusable Sensor – 01
Adult NIBP Cuff and Hose – 01
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etCO2 Tubing (box of 20) – 01 box
AED Multifunction Pads for Adults - 10 pairs with Each unit

5) Environmental factors
The unit shall be capable of operating continuously in ambient temperature of 5 – 45 deg C and relative humidity of up to 95%
Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

6) Power Supply
Power input to be 120-240VAC, 50-60 Hz
Should have a battery capable of usage for at least five hours.