DISTRICT MANSA LAB UPGRADATION

- 1. ELECTROLYTE ANALYSER. (Detail attached) (petal affectal)
- 2. COAGULOMETER.
- 3. PORTABLE SPIROMETERY.
- 4. ABG MACHINE.
- 5. ECG 12 LEAD MACHINE.

SPECIFICATION:-

ALL EQUIPMENT SHOULD BE BRANDED, FULLY AUTOMATIC WITH ISI MARK.

CIVIL HOSPITAL MANSA REQUIREMENTS FOR PEDIATRIC AND NEWBORN LEVEL II SET UP

- 1. PEDIATRIC OXYGEN MASKS (PVC GOOD QUALITY ISI MARKED MATERIAL)
- Z. OXYGEN HOODS FOR NEWBORNS X 6 (SPECIFICATIONS MENTIONED IN THE ATTACHED COPY)
- 3. NEWBORN BUBBLE CPAP X 1 (SPECIFICATIONS MENTIONED IN THE ATTACHED COPY)
 - 4. MULTIPARA MONITORS WITH PEDIATRIC AND NEWBORN

 PROBES X 6 (PORTABLE, PEDIATRIC/NEWBORN/ADULT

 MULTIPARA, 4800 mAh, 11.1V RECHARGEABLE LITHIUM ION

 BATTERY WITH ATLEAST 2.5 HOURS BACK UP)
 - 5. NEWBORN WARMERS X 3 (SPECIFICATIONS MENTIONED IN THE ATTACHED COPY)
 - 6. ICU BEDS X 6 (MECHANICAL, WITH ELEVATION CONTROL)
 - 7. LED PHOTOTHERAPY UNITS X 2SPECIFICATIONS MENTIONED IN THE ATTACHED COPY)
 - 8. PORTABLE X-RAY MACHINE WITH READER UNIT X

 1SPECIFICATIONS MENTIONED IN THE ATTACHED COPY)

9. SYRINGE INFUSION PUMPS X 6 (SPECIFICATIONS MENTIONED IN THE ATTACHED COPY)

10.LAMINAR AIR FLOW X 1

- 11.LARYNGOSCOPES (PEDIATRIC STRAIGHT BLADE SIZE 1 AND NEWBORN STRAIGHT BLADES 0 AND 00 MADE OF STAINLESS STEEL) X 2
- 12.ENDOTRACHEAL TUBES (2.5MM, 3 MM, 3.5 MM, 4 MM, 4.5 MM, 5 MM, 5.5 MM, 6 MM)
- 13.AMBU BAGS (PEDIATRIC 635 ML AND NEWBORN 220 ML) X 2 EACH
- 14.CRASH CARTS X 2 (STAINLESS STEEL ISI MARKED QUALITY)

As doctors are on strike, as concerned doctor is not amailable to regin



OXYGEN HOOD (NEONATAL)

Technical Specifications:

Square shaped -Single moulded Aerylic Hood

Overall Size: Height: 255 mm Length: 220 mm

Width: 200 mm

Neck Size: Width: 145 mm Height: 95 mm

Height adjusted Silicon neck flop

Oxygen inlet port

Top land Area: 170x130 mm

Octor on Arila

CPAP - spenfictions

	(2)	cpap- specifications
Maximum pressure limit Resistance to the	-	
Maximum pressure limit Resistance to the	MONS	
Resistance to flow Flow rate range	17 cm H ₂ O at 8 L/min	A grant of the contract of the contract of the track of the track of the contract of the contr
CPAP range	Expiratory Limb 0.6 cm H ₂ 0	0 @ 15 L/min
Circuit	4-15 L/min	
Circuit compressible volume	3-10 cm H ₂ O	
Circuit compliance	Approx. 285 mL	
retating temparate	Approx. 0.31 mL/cm H ₂ O	
Length of circuit tubing	18-26 °C / 64-79 °F	
Circuit tubing	Inspiratory 11 m Expiratory 1.2 m	Inspiratory 1.4 m Expiratory 1.2 m
Circuit tubing internal diameter	Inspiratory limb approximate	dy II mm
Olliforna	22 mm male or 15 mm female	e
Pressure monitoring port size Humidifier or	Female luer	
Humidifier compatibility	MR850 or MR730 humidifiers	S
Humidifier mode	MR850: 37° (intubation), MR7	730: 40°, -3
Duration of use	Single patient use, 7 days	
Recommended gas source	Medical grade blended air an	d oxygen from an air/oxygen blender
COMPONENTS AND COMPOSI	TION	
Pack components	The street of th	mber**, pressure manifold, bubble CPAP generator, bubble CPAP circuit
Predominant materials		polyethylene, ABS, copper/nickel
Chamber materials**		ne, thermoplastic elastomer, polycarbonate, polypropylene, silicone, PVC, aluminium
Materials not present		al rubber latex or phthalates (DEHP, DBP, BBP)
	Produced in a controlled work	
Disposal	According to hospital protoco	k
Shelf life .	3 years	

- Power failure
- System failure
 - Time out alarm (Manual mode automatic reduction of heater output at 10 minutes)
- Manual mode alert alarm (every 15min.)
- Over temperature
- Over Temperature Protection Automatic cut-off of heater at 39°C should be provided.
- Temperature Display should be Bright 1" numerical LED for displaying infant Temperature

- Bright 0.5" numerical LED for displaying Set Temperature

Fuse Rating	> Model - 110V	> Model - 230V
Main Supply	> 8A	> 4A
Examination lamp	∠ 2A	> 2A

- Bassinet tilting should be \pm 12 deg
- Bassinet Dimension should be 82 cm (L) x 52 cm (W)
- Mattress should be 85cm from the heater module.
- The baby bed should be crevice free for ease of cleaning, infection control
- The mattress used should be of bio compatible material.
- Should have provision for X-ray tray holder.
- Markings on the bassinet and X-Ray cassette holders is mandatory to enable proper positioning of the baby while doing the X-Ray.
- The size of the drop down sides should be such that it is 5" above the mattress surface and should be atleast 6mm thick; clear and transparent.
- Should be provided with 4 nos. 4" castors with brakes.
- Should have provision for storage drawer under the bed to place the baby or nursing accessories.
- Physical Dimension should be 105 cm (L) x 78 cm (W) x 190 cm (H)
- Coating should be Epoxy / power coated body for scratch protection and rust prevention
- Should be provided with battery backup for power failure indication during power fails.
- Should be European CE Certificated from notified body.
- Should comply with Electrical standards IEC60601.
- Manufacturer should be ISO 13485 Certified.



SPECIFICATIONS - Infant Radiant Warmer

- The system should be Micro controller based servo control system.
- Electrical specifications should be as:

Operating Voltage*	•	230V AC~, 50Hz	•	110VAC~, 60Hz
Power consumption (Max)	•	800w / 3.4A	•	800w/ 7A
Heater Power		600W	•	500W

- Heater should be single Quartz Infrared heating element placed in a Parabolic Reflector.
- Heater unit should be made of FRP material.
- Manual Mode Heater control range should be 0% to 100% (in 10% increments)
- If there is more than 60% heater output for 10 minutes it should cut off with alarm.
- Heater Life Time should be 12months
- Should be provided with one number examination lamp.
- Should have a facility to lock the keyboard to avoid unwanted user modification of the set parameters.
- Skin temperature probe should be thermistor based interchangeable probe.
- Measuring Temperature Range should be 15°C to 40°C
- Accuracy should be ± 0.2° C
- Resolution should be 0.1°C
- Probe interchangeability should be ± 0.2°C
- Servo mode set temperature range should be 32°C to 38°C
- Probe calibration need not be required.
- Examination lamp should be Lamp type 12V, 50W, Halogen Lamp
- Lamp illumination should be 90 foot candela at center of mattress
- Should have audio and visual alarms as below:
- High temperature (> 0.5°C difference)
- Low infant temperature (< 0.5°C difference)
- Temperature Probe failure
- Heater failure

Time totalizers Up to ±45° with continuous tiliting mechanism	Lamp unit tilting	
Machine run time totalizer and Therapy time totalizer	Time totalizers	Up to ±45° with continuous tiliting mechanism
Backlit	LCD .	Machine run time totalizer and Therapy time totalizer

ctrical Supply Specifications		
Electrical supply		
Voltage	Specification	
Current	100v-240vAC ~	
	0.8A Maximum	
Frequency	50/60Hz, single phase	
Power consumption	42W Maximum	
	7200 IVIDAIIIIUIII	
Expected life of the LED	more than 1,00,000 Hours	

Table 2.4 Environmental Specifications during Operation* and Transport/Storage**

	Specifications during Operation* au Specification*	Specification**
Ambient temperature	10°C to 35°C	0°C to 50°C
Relative humidity	0% to 90% noncondensing	0% to 90 % noncondensing
Atmospheric pressure	70 kPa to 106 kPa	50 kPa to 106 kPa

Table 2.5 Electrical Classifications

Feature	A STATE OF THE STA
Type of protection against electrical shock	Classification
Mode of operation	Class 1
	Continuous
Protection against ingress of liquids	Not protected (IPX0)

Conformity with standards, IEC 60601-1, IEC 60601-1-2,IEC

- Should be European CE Certificated from notified body.
- Manufacturer should be ISO 13485 certified.
- Coating should be Epoxy powder coated for scratch resistance and rust protection.



SPECIFICATIONS - LED Bhotothorony Unit

erformance Specifications sl Performance feature	louid be as follows
Illumination source	Specification
	Blue LED, 9 Nos
Peak spectral irradiance	55µW/cm2/nm(±15%) at 45 cm, as measured with Ocean Optics Spectrophotometer
Peak wavelength	451 nm ·
Emission spectrum	445-470 nm (bounds of FWHM range)
Effective surface area	500 mm x 250 mm at recommended treatment distance
Irradiance ratio	≥0.4 (minimum/maximum irradiance
Light intensity	Selectable (High or Low)
Observation light	White LED, 2 Nos

Physical feature	Specification – Top unit
Overall dimensions	Height x Width x Depth: 123 cm x 69 cm x 64 cm
Head assembly dimensions	Height x Width x Depth: 55 cm x 30 cm x 5 cm
Total unit mass	12 kg
Footprint of stand	Length x Width x Depth: 69 cm x 64 cm x 10 cm
Height of base	< 10 cm
Casters	2" castors, Lockable
Unight adjustment range	118 cm – 165 cm approx.
Height adjustment range	(distance between bottom surface and ground)

The stand is designed for maximum manoeuverability of the unit and is able to achieve tube focus to floor. tube focus to floor distance.

The equipment occupies minimum floor area and is capable to be taken through elevators with a elevators with ease.

POWER REQUIREMENT: The unit should be operable on Single Phase 230V, AC, 50Hz. 15 with line regulations. Amps with line regulation of ±10%. Line resistance 0.4 ohms.

OTHER REQUIREMENTS:

The company should be ISO certified.

The Product should be European CE certified with 04 digit notified body number.

The unit should be approved by AERB.

The company should have a local Service center.

The company should have proven track record in Govt. sector.



SPECIFICATIONS OF 4.2 KW HIGH FREQUENCY X-RAY MACHINE

High frequency X-Ray machine suitable for general radiography.

X-RAY GENERATOR:

High Frequency X-Ray Generator having frequency of 110KHz or more should be provided.

Power output of generator should be 4.2KW.

Radiographic KV Range should be 40 to 120KV.

mA Range (Rad.): 110mA or more. Exposure time (Rad.): 9ms to 5Sec. mAs Range (Rad.): upto 200mAs.

Attractive and ergonomically designed control panel with total soft touch switches for various operations, having following functions & indications.

Machine ON/OFF switch

Digital display of KV and mAs.

- KV and mAs increase and decrease switches.
- Ready and x-ray on switch with indicators

Bucky selection switch.

Stand by and exposure release switch.

Self diagnostic program with indicators for:-

Earth fault error

- KV error
- Filament error
- Tube Head thermal overload.

X-Ray on indicator.

Incoming voltage indicator.

Anatomical programming up to 216 pre-programmed functions in which automatic selection of Technical Factors is done according to the Body part Selection.

A 2-Step hand switch with dual action for exposure release with retractable cord should be provided for taking images from a safer distance.

X-RAY TUBE:

- Mono-block version X-Ray tube head should be provided. The mono-block consists of Stationary Anode X-Ray tube, H.V. transformer, filament transformer, H.V. rectifiers and capacitors, all immersed in high grade oil with high dielectric strength. Mono-block Tube Head should be protected for thermal overload.
- Manual LBD (light beam diaphragm) with should be provided with provision of Auto Shutoff.

STAND:

Mobile stand with 4-wheel design, which ensures easy mobility and steering.

The spring balance stand is very light in weight with tube arm, which is very easy to manoeuvere and allows smooth movements of tube head in vertical plane.

Lead lined cassette storage box.

Large nylon wheels for easy mobility.

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SYRINGE INFUSION PUMP SPECIFICATIONS

- 1. COLOUR LCD/LED WITH INFUSION RATE DISPLAY
- 2. IN-BUILT DRUG LIBRARY
- 3. HISTORY RECORD AND LAST CONFIGURATION MEMORY
- 4. AUTOMATIC SYRINGE CALIBRATION
- 5. MULTIPLE INFUSION MODES
- 6. PRESSURE DETECTION
- 7. DOUBLE CPU
- 8. BOLUS MODE
- 9. FIXING CLAMPS

DISTRICT MANSA

LAB UPGRADATION

- 1. ELECTROLYTE ANALYSER. (Detail attached) 2. COAGULOMETER. (petal allochal)
- 3. PORTABLE SPIROMETERY.
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- 5. ECG 12 LEAD MACHINE.

SPECIFICATION:-

ALL EQUIPMENT SHOULD BE BRANDED, FULLY AUTOMATIC WITH ISI MARK.





- 1. HOSPITAL BEDS.
- 2. IV STANDS.

SPECIFICATION:-

HOSPITAL BEDS WITH MECHINICAL ELEVATION(WITHOUT KEY)

1

Electrolyte Analyser

Specifications:-

- Compact and easy to use with maintainance free electrodes.
- Electrolytes Na, K, Ca analysis.
- Sample to be used whole blood, serum, plasma, urine.
- Automatic Sampling.
- Measuring time minimum
- Data Storage Maximum
- Wide range of ambient conditions
- Including Graphic display
- Inbuilt printer for reports
- Low cost per test
- Automatic Callibration
- Maximum precision and reliability
- Battery Backup
- Q.C.

Coagulometer:

Specifications

- Compact and Easy to use,
- Assay Modes: PT/APTI/AB/TT/FACTORS/PS/PC/D-Dimer; programmable.
- Report tip- Seconds; Ratio; INR; %Act, mg/dl/10 ml, GIC etc.
- Samples at one time- (Multiple Sample)
- Positions for incubation of reaction curettes and reagents.
- Wide range of ambient temperature/ Conditions.
- Q.C
- long battery back up.
- Graphical Display and Inbuilt printer for reports.
- Calibrator
- Max. data storage.
- Coagulation clotting time display.

Technical Specifications

ANALYSER

SYSTEM GENERAL

System Type:

inalyzer atient poor tized clinical chemistry screte, automated, random access,

Throughput:

33 the county is the state of 60 tests / Nour photometric and optional ist with Nat, Kt. Cl. Li

Analytical Methods:

Barcode Reader:

Direct Potentiometry (optional)

-Point, 2- Junt, Bate-A, Rate-B

For reagents and samples (optional)

Reaction Tray:

Chard glas - uvelles

Reaction Mixing:

Surrey with variable speed

Minimum reaction Volume:

150 µl with maximum 200 µl reading volume

On-board Laundry:

stage cleuring. Z stage drying

Photometer:

Multi-wavelength diffraction grating with :05.546,570,600,660,700,750 nm) 12 wavelengms 340, 376, 415, 450, 480,

OD Range:

Halogen lain; Detector:

00.30

Light Source:

SAKOR Phene d Jak

Water Consumption:

Programmable Parameters:

Unlimited profile and unlimited calculation upto 99 user defined parameters. Default system pack parameters Sunan

Quality Control:

QC plot data with QC rules

exponential, polynomial 4P and 5P Logit-log, cubic spline. K-Factor, Linear (1, 2 point & multipoint)

Power Requirement: AC 220 V ± 10 %, 50 Hz or

AC 110 V ± 10 %, 50 Hz

Power Consumption:

800 VA

Dimension: (mm)

Approx. 675 (W) x 840 (D) x 1120 (H)

Approx 150 kgs

SAMPLE HANDLING

Serum, Plasma, Urine, CSF, Whole blood,

Sample Unit:

calibrators, STAT sample .82 positions for samples, blank, controls,

provide the season of the constitution of the a

Provision for lab mean. Twin plot

Calibration:

On-board serial dilution for calibrator

REAGENT HANDLING

sample cups

Sample Tubes /Cups:

volume (upto 1.150)

Repeat with same, increased or decreased

Auto Rerun: serum indices & vertical obstruction detection

Capacitance probe with liquid level sensing

Biochemistry, 70 µl fixed for ISI 2 - 70 µl (adjustable in 0.1 , stell) for Sample Pipetting:

Primary tubes of 5 ml, 7 ml, 10 ml and

Surjoos

50 positions for reagents with imboard Reagent Tray:

Reagent Pipetting:

& vertical obstruction detection Capacitance probe with level sensing R1:50 - 300 µl (adjustable in tipi step) R2: 10 - 200 µl (adjustable ու 1 µl step)

SYSTEM INTERFACE:

Analyzer-PC: USB

PC - Host Computer: Biding Ct. and TCP / IP & RS - 232

PC - Printer: USB

Operating System:

Windows Based

Eq. Eu 350/07-2020/ver-C03/Dom/Bro

Database:

Unlamited Results