



ಕರ್ನಾಟಕ ಸರ್ಕಾರ

GOVERNMENT OF KARNATAKA

ಕಾರ್ಮಿಕರ ರಾಜ್ಯ ವಿಮಾ ಯೋಜನೆ ವೈದ್ಯಕೀಯ ಸೇವೆಗಳ ನಿರ್ದೇಶನಾಲಯ

DIRECTORATE OF E.S.I.S MEDICAL SERVICES

ಎಸ್.ನಿಜಲಿಂಗಪ್ಪ ರಸ್ತೆ, ರಾಜಾಜಿನಗರ 2ನೇ ಬ್ಲಾಕ್, ಬೆಂಗಳೂರು - 560010

S.NIJALINGAPPA ROAD, RAJAJINAGAR 2<sup>ND</sup> BLOCK, BANGALORE-560 010.

<http://nitpu3.kar.nic.in/labour>

Telefax: (080)23324216 / 2332 8105

No. ESIS/ECS/03/2021-22

Dated: 28-05-2021.

## **SEALED QUOTATION NOTIFICATION**

Sub: Sealed Quotations are invited for the supply of various Drugs, Consumables, Disposable Items, Lab. Instruments/ Chemicals/ Reagents and Equipment's for all ESI Hospitals DCHC/CCC.

Ref: ಸರ್ಕಾರದ ಆದೇಶ ಪತ್ರ ಸಂ:- ಕಾಜ/ಎಲ್‌ಎಸ್‌ಐ/99/2021 ದಿ:-18-05-2021.

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In View of present Covid-19 Pandemic emergency and Second upsurge crisis, Vide Reference letter as above, it is informed that all ESI Hospitals functioning as Dedicated COVID Health Centre (DCHC) and COVID Care Centre (CCC) require continuous supply of various Drugs, Consumables, Disposable Items, Lab. Instruments/Chemicals/Reagents and Equipment's for effective functioning.

Hence sealed quotations duly super scribed as "SEALED QUOTATION" for Supply of various Drugs, Consumables, Disposable Items, Lab. Instruments/ Chemicals/Reagents and Equipment's are invited from the Manufacturer/authorized agent/Distributor. Addressed To Director, ESIS Medical Services, Rajajinagar, Bangalore-560010.

<b>❖ NAME OF THE ITEM AND QUANTITY REQUIRED</b>	"SEALED QUOTATION" for supply of various Drugs, Consumables, Disposable Items, Lab. Instruments/ Chemicals/Reagents and Equipment's for all ESI Hospitals DCHC/CCC. <b>(As Detailed in Annexure) and the details are available in department web site ID :- <a href="https://esisms.karnataka.gov.in/">https://esisms.karnataka.gov.in/</a></b>
<b>❖ VALIDITY OF QUOTATION</b>	Rate quoted should be valid for six months.
<b>❖ SUBMISSION OF QUOTATION</b>	Quotations should be submitted in sealed covers only addressed to the Director, ESIS Med. Services, Rajajinagar, Bagnalore-10. And should be dropped in to the box at ESIS Directorate office on or Before <b>Dt 07-06-2021 Before 4.30 PM</b>
<b>❖ PROOF OF CREDIBILITY</b>	List of items supplied to various States /National/*International agencies with the quantities including supply to programmes sponsored by WHO/UNICEF if any.
<b>❖ SUPPLY AND PAYMENT SCHEDULE.</b>	Supply should be effected within 15 days from the date of issue of the order. No advance payment will be made towards the supply, payment for supply shall be payable only after the certification of satisfaction of the supply conditions.
<b>❖ LAST DATE FOR SUBMISSION OF QUOTATION</b>	Date:- <b>07-06-2021</b> before 4.30 PM. Quotations received after stipulated date and time will not be considered.
<b>❖ TERMS OF QUOTATIONS</b>	<ol style="list-style-type: none"><li>1. Quotation through telegram, fax, e-mail will not be Accepted.</li><li>2. Quotations, which are not super scribed/not sealed/not, submitted to the Director, ESIS Med. Services and those received after the due date and time through whatever means will be rejected.</li><li>3. The Director, ESIS Med. Services reserves the right to cancel the Quotations without assigning any reason.</li><li>4. The Director, ESIS Med. Services reserves the right to call for any additional document other than samples deemed necessary for evaluation of any quotation.</li><li>5. Legal jurisdiction: Bangalore City.</li><li>6. The fax, telephone nos, if any of the quoting firm should be mentioned clearly in the quotation offer form. Rates quoted should be inclusive of excise duty but exclusive of sales tax payable if any. If the supply of above said is not of standard quality/ inferior quality/unsound the firm should replace the entire supplied quantity irrespective of the quantity used or consumed rejected quantity will not be returned.</li><li>7. The supplier shall warrant that the goods supplied under this quotation are new, unused, and incorporates all design and materials as specified in the Quotation.</li><li>8. This warranty shall be valid for a minimum period of 12 months after the goods or any portion thereof as the case may be, have been delivered and accepted at the final destination.</li><li>9. The supplier shall provide such packing of the goods as it required to prevent their damage or deterioration during transit to final destination as indicated in the supply order.</li></ol>



10. The supply shall be made to the concerned destination as per the order copy at your own cost.
11. Demonstration/samples should be provided when intimated at your own cost without fail (if any firm fails to submit samples/demonstrate when intimated those quotations will be rejected without any intimation).
12. The evaluation will be done including the applicable tax. If the tenderer has not included the applicable tax in his quotation for the item rate, and has also not indicated the rate of tax applicable, the quoted rate will be treated as though it is inclusive of the all applicable tax and no extra payment for tax will be made.
13. If the above said items are covered by Bureau of Indian Standards, the reference to the Standards should be given. If ISI marking is available it should be specified.
14. The rates quoted for each item shall be fixed for the duration of the contract and shall not be subject to any adjustment.
15. No over writing should be made in the quotation submitted.
16. Each tenderer must submit only one quotation.
17. The purchaser reserves the right at the time of contract award to increase or decrease the quantities of any or all of the items indicated without any change in the unit price or any other terms and conditions.
18. Normal commercial warranty/guarantee shall be applicable to the supplied items.
19. 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 prior to the award of the contract.
20. The tenderer shall quote for items in the format of quotation as detailed below.

## FORMAT OF QUOTATION TO BE SUBMITTED

Sl. No.	Description of item	Brief specifications with Brand Name & Manufacturer name	Quantity	Unit rate (Rs.) in figures	Unit rate (Rs.) in words	+% of GST if any in figures	+ % of GST if any in words	Total amount in (Rs.) including all taxes (in figures)	Total amount in (Rs.) including all taxes (in words)
1	2	3	4	5	6	7	8	9	10

Total amount in Rs..... (in figures) including all taxes.  
 Rs..... (Words) including all taxes.

1. We agree to supply the above item in accordance with specifications @ the unit cost of Rs..... (in figures) including all taxes  
 Rs..... (in figures) and  
 Rs..... (in words) including all taxes, within the period specified by your end.
2. We also confirm that the normal commercial warranty/guarantee for ..... Months/year shall apply to the supplied items.
3. We shall agree for all other terms and condition laid by you as detailed in the quotation.

**NOTE:-**

1. The Details are Available in Department Web Site ID  
<https://esisms.karnataka.gov.in/>
2. Any Minor variation in the Technical Specifications left to the Technical Committee Constituted by the Director, ESIS M Services, Rajajinagar, Bangalore and their Decision is Final.
3. Submitted Quotations Shall not be considered if the firms fails to demonstrate the quoted Equipment/Instrument before the TAC when intimated

(Tenderer)


**Name** : .....

**Signature** : .....

**Date** : .....

**Contact No.** : .....

  
 Director,  
 ESIS Med. Services.

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To,

1. Medical Superintendent of Bowring & Lady Curzon Hospital, Shivajinagar, Bangalore – to kindly display the notification in your notice board.
2. Medical Superintendent of Victoria Hospital, Near City Market, Bangalore – to kindly display the notification in your notice board.
3. Medical Superintendent of Sanjay Gandhi Accident & Research Institute Hospital, Jayanagar, Bangalore – to kindly display the notification in your notice board.
4. Medical Superintendent of SDS Sanatorium Hospital, Old Madras Road, Bangalore – to kindly display the notification in your notice board.
5. Medical Superintendent of Vanivilas Hospital, Victoria Hospital Campus, City Market, Bangalore – to kindly display the notification in your notice board.
6. Medical Superintendent of Kidwai Hospital, Hosur Road, Bangalore – to kindly display the notification in your notice board.
7. Medical Superintendent of Jayadeva Institute of Cardiology, Bannargatta Road, Bangalore – to kindly display the notification in your notice board.
8. Medical Superintendent of K.C.General Hospital, Malleshwaram, Bangalore – to kindly display the notification in your notice board.
9. Medical Superintendent of ESI Model Hospital, Rajajinagar, Bangalore – to kindly display the notification in your notice board.
10. Medical Superintendent of ESIC Hospital, Peenya, Bangalore – to kindly Display the notification in your notice board.
- 11 Medical Superintendent of ESI Hospital, Indiranagar, Bangalore – to kindly display the notification in your notice board.
- 12 Office of the Director, ESIS Medical Services, Rajajinagar, Bangalore – to kindly display the notification on the Notice Board.

**Indent Format For Drugs Required For DCHC/CCC  
(Not in ESIC RC)**

<b>Sl. No.</b>	<b>Name of the drug With Composition</b>
<b>1</b>	Tab Paracetamol-250mg
<b>2</b>	Tab Paracetamol-125mg DT
<b>3</b>	Tab Zinc 50 mg.
<b>4</b>	Tab Dexamethasone 8mg
<b>5</b>	Inj Enoxaparin 40 mg
<b>6</b>	Inj Enoxaparin 60 mg
<b>7</b>	Inj Sodium Bicarbonate
<b>8</b>	Inj Remdesivir 100mg
<b>9</b>	Inj Dopamine
<b>10</b>	Inj 25% Dextrose in 100ml
<b>11</b>	Inj Atropine
<b>12</b>	Budesonide Inhaler 200mcg
<b>13</b>	2-Deoxy-D Glucose Sachets
<b>14</b>	Tab. Favipiravir -200mg
<b>15</b>	Tab. Oseltamivir - 75mg

  
Director

ESIS Medical Services





**Indent Format For Disposable - Consumables Items Required For  
DCHC/CCC  
(Not in ESIC RC)**

Sl. No.	Name of the DISPOSABLES / CONSUMABLES
1	PPE KITS. (70 GSM OVER ALL SUIT, HEADGEAR WITH CLEAR VISSION, 3 PLY MASK, 2 PAIRS OF GLOVES, APRON, GOGGLES, SHOE LEGGING, WASTE DISPOSABLE BAG WITH OUTER WRAP WITH NECESSARY CERTIFICATION)
2	N-95 MASKS. (NIOSH Aapproved) WITHOUT RESPIRATOR.
3	COTTON MASK
4	SANITIZER 500 ML WITH DISPENSER
5	STERILE GLOVES 6, .
6	STERILE GLOVES 6 ½,
7	STERILE GLOVES 7,
8	STERILE GLOVES 7 ½
9	UN STERILE GLOVES 6,
10	UN STERILE GLOVES 6 ½,
11	UN STERILE GLOVES 7,
12	UN STERILE GLOVES 7 ½,
13	ADULT DIAPER. (MEDIUM AND LARGE)
14	DISPOSABLE Macro DRIP SET.
15	ALCOHOL SWABS.
16	LONG RUBBER GLOVES
17	TISSUE PAPER ROLLS.
18	ADHESIVE PLASTER- 5 CMS, 7.5 CMS.
19	Nitril GLOVES- (SMALL, MEDIUM, LARGE)
20	SODIUM HYPO CHOLORIDE SOLUTION. ( 5 L CAN)
21	SURGICAL SPIRIT. 500ml Bottle
22	LIQUID SOAP SOLUTION. 500ml Bottle
23	BETADINE MOUTH GARGLE. 100ml Bottle
24	DISPOSABLE BMW COVERS.
25	DISPOSABLE SURGICAL GOWNS
26	BETADINE SCRUB SOLUTION. 100ml Bottle
27	NON REBREATHER MASK
28	VENTURI MASK - RED/GREEN/YELLOW
29	EASSY FIX CANULA FIXATOR

Director

ESIS Medical Services

**INDENT FORMAT FOR EQUIPMENTS REQUIRED FOR DCHC/CCC**

<b>Sl. No.</b>	<b>Name of the EQUIPMENTS/ INSTRUMENTS/ CHEMICALS</b>
1	GLUCOMETER.
2	GLUCOMETER STRIPS. (SPECIFIC TO THE GLUCOMETER BEING QUOTED).
3	THERMAL SCANNER.
4	FINGER PULSE OXYMETER.
5	RECHARGABLE DISINFECTANT SPRAYER.
6	DIGITAL RECHAGABLE B.P. APPARATUS
7	OXYGEN CONCENTRATOR.( 10 LTR OUTPUT WITH 95% OXYGEN CONCENTRATION)
8	BIPAP MACHINE.( ANNEXURE-1)
9	SUCTION APPARATUS.(ANNEXURE-2)
10	DIGITAL THERMOMETER.
11	VACCUM CLEANER.
12	WATER PURIFIER WITH DISPENSOR. (WITH UV AND RO)
13	D-DIMER TEST CARTRIDGE.
14	D-DIMER PROBE CLEANER CARTRIDGE.
15	CRP TEST CARTRIDGE.
16	HBA1C TEST CARTRIDGE.
17	ABG TEST CARTRIDGE.
18	ABG PROBE CLEANER CARTRIDGE.
19	PT AND APTT CURETTES.
20	HEMATOLOGY ANALYZER 3 PART SOLUTION – DILUENT & LYSE.
21	HEMATOLOGY ANALYZER 3 PART.(ANNEXURE-3)
22	DISTILLED WATER – 20 L
23	WASH SOLUTION -500 ML
24	ELECTROLYTE ANALYZER CARTRIDGE.
25	FOGGING MACHINE.
26	SPRAYING MACHINE.
27	FOOT OPERATED SANITIZER STAND.
28	LIQUID OXYGEN PLANT. WITH PIPELINE AND ACCESSORIES WHERE EVER REQUIRED TO RESPECTIVE ESI HOSPITAL WITH LIQUID OXYGEN TANK CAPACITY OF 3 KL.(ANNEXURE-4)



29	PORTABLE DIGITAL X-RAY (WITH 1 DETECTOR (ENCLOSED SPECIFICATIONS), 2 LEAD APRONS, 2 PAIRS OF GOGGLES, 2 GONAD SHIELDS) (ANNEXURE-5)
30	INDUSTRIAL WASHING MACHINE-90KGS
31	ICE LINED REFRIGRATOR
32	OXYGEN FLOW METER
33	MULTI PARA MONITOR 5 CHANNEL (ANNEXURE -6)
34	COAGULOMETER (ANNEXURE-7)
35	CENTRIFUGE (ANNEXURE-8)
36	BINOCULAR MICROSCOPE WITH ILLUMINATION (ANNEXURE-9)
37	SEMI AUTO ANALYZER 3 PARTS. (ANNEXURE-10)
38	RAPID IMMUNOASSAY ANALYZER (RAPID METHOD CARTRIDGE BASED FOR D-DIMMER /CRP/HbA1C) TO BE QUOTED ALONG WITH CARTRIDGE. (ANNEXURE - 11)
<b>Specification should submitted as per Annexure</b>	

  
Director

ESIS Medical Services  


# ANNEXURE - 1

<b>Technical Specification for BIPAP Machine</b>	
Dimensions	- 18 cm L x 14 cm W x 10 cm H (7" L x 5.5" W x 4" H)
Starting ramp	- 4 to EPAPmin
Pressure range	- EPAP 4 - 25 cm H <sub>2</sub> O; IPAP 4 - 25 cm H <sub>2</sub> O; CPAP 4 - 20 cm H <sub>2</sub> O
Flex pressure relief	- 0 to 30 (S-mode)
Breath rate	- 0 - 30 beats per minute
Device setting	- LCD/control wheel/push button
Ramp time	- 0 to 45 min (5-min increments) min
Filters	- Foam and optional ultra-fine
Device setting	- LCD/control wheel/push button with LED Lighting



## High end Suction Apparatus

ANNEXURE - 2

- It should be a good quality reliable suction machine with easy portability with two large wheels.
- It should be ideal for O.T, ICU usage with suction capacity of 90 LPM and maximum vacuum of - 700mmHg (Minimum of 500 mmHg)
- It should have facility for 220 volts AC operation.
- It should have rust proof plastic body
- Adjustable vacuum up to - 700 mmHg
- Should have a double Piston pump mechanism
- Should have electronic acoustic alarm
- It should have poly carbonate 2.5 liter jar two nos with a easy change over switch
- Sound level less than 60db
- Weight less than 25 kgs.
- Complete Accessories should be supplied along with the system
- Should be ISO, CE certified.

✓

✓



Principle	Electrical impedance method for WBC/RBC/PLT Cyanide Free Colorimetric method for HGB
Reportable Parameters	21 Parameters consisting: WBC, LYM%, MID%, GRAN%, LYM#, MID#, GRAN#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PWD, PCT, P-LCR, P-LCC, 3-Histograms for WBC, RBC and PLT. Alarm for abnormal erythrocytes, leukocytes and platelet.
Throughput	60 samples per hour
Reagent	2 Routine reagents: Diluent & Lyse
Sample Volume	9 ul
Data Storage Capacity	Internal Memory ca store 600,000 test values with parameters, Histograms and Patient information
Quality control	2 QC method: L-J and X-B QC with appropriate QC charts.
Calibration	3 Types of Calibration, Manual Calibration, Auto Calibration with calibrators and Auto Calibration using fresh sample
Power Requirement	100v – 240 VAC: 50/60Hz
Operating Environment	Temperature: 10 <sup>o</sup> C – 30 <sup>o</sup> C Relative Humidity: 30% - 85%, Atmospheric pressure: 70 kPa – 106 kPa.



# ANNEXURE - 4

## Technical Specification for Liquid Oxygen Plant with 3 KL Storage tank

i	<p>Supply of liquid medical oxygen in 3kl 17bar MAWP cryogenic storage tank.          Medical oxygen conforming to IP-2014 (99.5% purity) .          Space taken for installation should be as per regulations of Indian explosive controller and having easy access for LMO tank.          Should have compact unit including vessel, vaporizer, &amp; incorporated with level gauge (analog) for low content and pressure.          Should not cause any damage to gas pipeline, anaesthesia machine and ventilators.          Should have level indicator and preferably low liquid level gauge (analog) with safety system in case of emergency/un-natural calamities.</p>
2.	<b><u>Vaporizer capacity:</u></b> of 1000 NM3/HR with suitable Medical Spool of 1" size.
3.	<b><u>Tank Foundation.</u></b> should be in the scope of work as per the requirement
4.	<p><b><u>Storage Tank Capacity:</u></b>          Vacuum insulated evaporator vessel should have a capacity of 3 kl (Kilo Litres).The AV coil should have adequate capacity to handle the gas flow requirements of the hospital.          The storage tank and the vaporizer coils should be designed as per the standards,  <b>The cryogenic vessel will be of Double walled, vertical &amp; cylindrical shape</b> with vaporiser and the pressure control system. It should be provided with the essential components to fill the liquid, to build up pressure, to relieve pressure, to withdraw product and to evacuate the vessel.All protective, safety and level gauge (analog) provisions mandatory to Liquid Medical Oxygen System          The fence, foundation, lighting, signage, approach gate, approach road etc are to be designed and installed by the vendor</p>
5.	<b><u>Barricade:</u></b> Barricade to be fabricated; this barricade will be painted with alternate yellow and black strips of colour. All welding to be done as per IS standards
6.	<b><u>Earthing Pit:</u></b> The earthing Pit is to be constructed. The GI pipe used for earthing is to be drilled type, of size 40mm in diameter and 3 meters in length. Charcoal to be filled for 150 mm and salt to be filled for 150 mm. The 550 Sq. chequered plate to be provided to cover the earthing plate. GI flat of size 50mm width and 6mm thick of length 20 meters to be connected from earthing pit to equipment.
7.	<b><u>Emergency Gate:</u></b> The emergency gate to be fabricated. Suitable sizes of MS flats and MS rods to be selected. Galvanised diamond mesh 11 of gauge 50x50 to be used. Provide mechanical stoppers to the gate such that gate cannot be opened inward.
8.	<b><u>Hardstand:</u></b> Hardstand to be constructed. The hardstand size to of 8mX4m. The hardstand comprised of 150 mm soling, 150 mm PCC I :4:8., 150 mm thick concrete.
9.	<b><u>Fencing:</u></b> Fencing to be fabricated. Fencing comprises of 2" diameter pipe of length 2 meters. The bottom 500 mm pipe portions to be placed in pcc. These have to be paced 2000mm typical position. The mesh to be used is to be of 50X50 GI, 9mm gauge. All pole pipes to be painted with black paint. Mesh to be painted with

	white paint. And Space taken for installation should be as per regulation of Indian explosive controller and having easy access for LMO tank.
10.	<b>Main Gate:</b> Gate to be fabricated. Gate will be of 2 meters height and 6 meters in width. Provide mechanical stoppers to the gate such that gate cannot be opened inward.
11.	<b>PCC around Tank:</b> This has to be to constructed as per the Requirement
12.	<b>Fire extinguisher:</b> Two no's fire extinguishers of DCP type, of capacity 10kg each are required
13.	<b>Fire and water buckets with stand:</b> Two nos of fire buckets and two nos of water buckets fixed on metallic stand which. These buckets to be painted in red and stand to be painted in black.
14.	<b>Water tap:</b> water tap along with 10 meters plastic tube is required
15.	Pipe line work to be done for connection from the Plant to the Oxygen pipeline of the Hospital
16.	<b>Safety:</b> The vendor should ensure that all international safety norms and standards applicable as implemented and certified by the CCE. Two safety valves for inner vessel fitted on pipeline with flow divert valve. - Rupture disc for inner vessel. - Safety valve for inlet pipeline. - Safety valve for pipeline of pressurizing evaporator. - One rupture disc/ safety device on outer vessel.
17.	<b>Statutory Requirements:</b> All statutory requirements of the Chief Controller of Explosives of India and SMPV rules and need to be followed; besides all regulations and guidelines put forward by the Govt. Of India from time to time should be followed. And Licences from PESO
18.	<b>Maintenance:</b> All routine preventive maintenance and break-down maintenance of the liquid oxygen system should be done by the vendor. Experienced personnel should be readily available.
19.	<b>Training:—</b> Satisfactory Training to be provided at site
20.	Erection & commissioning of complete storage system should be done.
21.	Transportation of complete storage system from suppliers works our site and back after contract expiry shall be in bidder's scope and no extra charges will be paid
22.	Warranty 3 years and CMC for 5 years



# ANNEXURE - 5

## Specifications for 100 mA High Frequency Portable X Ray Unit with Detector

State of Art High frequency microprocessor controlled Portable X Ray having following features:-

1. Compact, lightweight, easily transportable mobile X Ray unit suitable for bedside x-rays.
2. The unit should be fully counter balanced and can be positioned to suit different bed heights. The unit should have facility of vertical swing and horizontal rotation of the tube head to ensure X Ray of any anatomy even within limited space.
3. The unit must have an effective braking system for parking and transport.
4. The tube stand must be fully counterbalanced with rotation in all directions.
5. The unit must have intelligent graphical LCD display with at least 60 user configurable anatomy presets for ease of operation to the operator.
6. The exposure release switch should be detachable with a cord of sufficient length (at least 3 m)
7. The unit should have integrated cassette box of size 542 mm (W) x 420mm(H)
8. The Generator:
  - a. Microprocessor controlled high frequency / inverter type of high frequency (40 KHz or more) for constant output. Higher Frequency will be preferred.
  - b. It should have power rating of 4 kW or more
  - c. It should have a digital display of mAs and kV.
  - d. KV range : 40 kv to 100kV or more
  - e. mA range: 10 mA to 100 mA or more
  - f. KV selection: 40 kV to 100 kv, selectable in 1 kV steps
  - g. mAS selection: 0.1 to 250 mAS
  - h. It should have over loading protection.
  - i. It should have APR feature
9. X-Ray Tube and Collimator:
  - a. Stationary / Rotating anode having focal spot size less than 2mm.
  - b. Output of tube should match with that of generator.
  - c. LED Light Beam diaphragm / Double layer Collimator with auto cut off switch. The light intensity of LED shall be at least 160 lux at 1 mtr distance from focal spot.
  - d. Collimator rotation +/- 90 degrees, Tube Head rotation - Vertical - at least 280 degrees, Horizontal - at least 350 degrees should be possible
10. The unit should operate on single phase power supply and should have plug in facility to any standard wall outlet with automatic adaptation to line voltage 200 to 240 volts, 15 Amp plug.
11. The Leakage radiation level at 1 meter from the focus should be less than 70mR. Products having minimal leakage radiation level will be preferred.
12. The Systems should be fully safe with respect to Over current and Over Voltage
  - c. Maximum loading of tube
13. Power input to be 220-240VAC, 50Hz fitted with Indian plug.
14. Manufacturer / supplier should have ISO 13485 certification
15. The product should have European CE certification or US FDA approval.
16. Should be an AERB approved product With E-Licensing

ANNEXURE - 5

**Detector specification.**

- a) It should be a Wireless Detector
- b) It should Light weight and easy to carry.
- c) It should have IPX6 for Water Resistant
- d) It should have minimum of 4 hours battery backup.
- e) It should have a minimum of 200 image storage.

It should be provided with a two console for viewing, one adjacent to Covid-19 ward and one at the department of Radiology.

The detector should be from European countries or USA for better durability.



## Multiple Vital Signs Monitor 5 Parameters

1000-2

141-2

- Should be a Modular Monitor with at least 17" Touch Colored active TFT display with 10 waveforms Monitoring facility.
- Should have compact design of module to measure parameters like ECG, NIBP, HR, Resp, SPO2, 2 X Temp, SIDE STREAM ETCO2 (LOW FLOW / MICRO STREAM) 2 X IBP with ICP monitoring facility with IBP over lapping facility and suitable for monitoring Adult, Pediatrics and Neonates.
- Monitor should have Inbuilt rechargeable battery for minimum 2 hours. External Batteries / UPS is not preferred.
- Should have OxyCRG to judge the respiration and circulation functions in Neonates.
- Should have facility for Drug Dose Calculations. Should also have facility for Hemodynamics, renal, Oxygenation, CRG & Ventilation calculation packages.
- It should be possible to operate it through both the touch screen and a trim knob interface.
- Should have Nellcor / Masimo Technology for SPO2 measurement.
- Monitor should have Arrhythmia detection (16 types), S-T Analyses and Pacemaker detection.
- Should be upgradable to and company should quote for Anesthesia Multi Gas (Main stream) Integrated NMT & BIS Modules along with accessories cost.
- 120-hour Graphical & tabular trends of all parameters.
- Should have VGA output & Patient friendly night mode with dimmer screen, Backlit buttons, Lower alarm volume and No HR beep tone.
- Monitor should have a built in transport monitor which also acts as a basic module to monitor Spo2, Nibp, 3/5 lead ECG, Resp & temperature with minimum 4 hours built in battery, touch screen color display and water proof (IP44) and shock resistance (should with stand a fall of at least 1 meter).

Transport monitor should be easily detachable from the main monitor and should be easily portable with the built in handle. Weight should be less than 2 kgs and should be EN 1789 certification for transportation.

- Confirms USFDA Certification for Quality standards (Quoting company should furnish USFDA Certification specific to the model Quoted).
- Should have HL7 compatibility & Bed to bed view facility facility.
- Should have patient friendly night mode with dimmer screen, Backlit buttons, Lower alarm volume and No HT beep tone should be supplied

or European CE by notified body certification

or European CE certification

ECG Cable, NIBP cuff adult & child one no each, Spo2

ANNEXURE - 7

## COAGULOMETER - QM-01

### Key Features:

1. Configuration Model: Benchtop
2. Method used: Optomechanical turbidensitometry
3. 3-Level QC
4. Levy Jennings plot
5. Data transfer – RS232
6. Programmable sample ID
7. Sample type Whole Blood



## CENTRIFUGE

- Table Top version
- Angle head motor with tube capacity 5- 15 ml
- To have capacity to hold 24 – 36 tubes at a time
- Should have digital timer
- Body should be made of strong fabricated and corrosion resistant still
- Control panel for start and atop switch dynamic brakes, steepless speed regulator with zero
- Start switch and speed indicator with timer and protection facility
- Intensive LCD digital display in control panel of RPM CRT speed range 100 to 6000RPM and above
- Tube holders as appropriate
- Protect should preferable FD/CE/or ISI approved

ANNEXURE - 9

## **MICROSCOPE, BINOCULAR WITH ILLUMINATION AND FACILITY FOR PHOTOGRAPHY AND CAMERA**

Binocular for bright-field, dark field, phase contrast and fluorescence application.  
Microscope basic stand with 30W.

Transmitted light illumination. Coaxial double Knob focusing

Lift approx. 20mm, 5-fold revolving nosepiece, fixed.

Objective condenser height displacement with rack and pinion and right/left.

Control, Condenser holder with dovetail and centering device for interchangeable condensers.

Transmitted light illumination with collector and 12V 30W halogen lamp, incorporated field diaphragm, removable for mirror adaptation. Supply unit for the 12 Vx30W lamp, incorporated and regulating.

Mechanical stage for right hand operation, without object holder, fixed mounted to the stage holder.

Scanning area 76x52 mm;

Spare Halogen lamp 12 V / 30 W

Lamp housing with 30 W lamp complete

Lamp source : 220 V / 50 Hz.

Illuminator for incident fluorescence, for 2 filter systems;

Blue filter dark stop commutable; light trap to avoid external light.

Filter system for blue excitation.

Tube trinocular with fixed photo tube , tube lens 00/1x, 30° inclination, automatic constant sharpness at eye width from 55 to 75 mm; beam splitter for camera.

Object holder for 2 specimens for mechanical stage.

Universal Condenser.

Dust cover

Objective 5 x 0.12.

Objective 10 x 0.25

Objective 40 x 0.65.

Objective 100 x 1.25 Oil immersion.

10 ml Immersion  
oil

Pair of eyepieces 10 x /20

Power supply : 240 V / 50 Hz.

All lenses and optics should be imported.

Compatible and appropriate Hi-quality Digital Camera (12 Megapixel or more)  
along with

couplers, all connecting cables, computer connectivity; and should be quoted  
separately.



Annexure - 10

TECHNICAL SPECIFICATIONS.

SEMI AUTO ANALYSER 3 PARTS

Operating Modes	Absorbance, End-Point, Fixed time, Kinetic, Multipoints, Sample blank
Items	180 Tests Parameters
Results Storage	Upto 6000 Test Results
Reaction volume	400 ul
Flow Cell	32 ul
Temperature Control	37 <sup>0</sup> C +/- 0.2 <sup>0</sup> C
Light Source	6V, 10W Halogen Lamp
Photometric Range	0-3.0A
Software	Touch Screen, English version
Display	7 inch Touch Screen
Printer	Built – in Thermal Printer
Serial Output	Rs- 232 Standard
Power Supply	220v/110V +/- 10% 50 Hz – 60Hz

**RAPID IMMUNO ANALYSER**

1. Based on Immuno-fluorescence technology
2. NGSP, CE, IFCC Certified
3. 25+ Parameters
4. Internal Temp. Control
5. 8" LCD touch screen display
6. LIS connectivity
7. Built in Thermal printer
8. 30000 test results storage
9. Instant results 3-15 mins. Testing time
10. Self – Calibration
11. High accuracy
12. Can be expanded to 250 parameters