

महाराष्ट्र शासन
विभागीय संदर्भ सेवा रुग्णालय, नाशिक.

दुरध्वनी क्रमांक : ०२५३(कार्यालय) २५९४७६२ ई-मेल : rrrhnashik@gmail.com	कार्यालय- मा. वैद्यकीय अधीक्षक, वर्ग-१, विभागीय संदर्भ सेवा रुग्णालय, स्व. इंदिरा गांधी चौक, शालिमार, नाशिक
आरोग्य सेवा	जा.क्र. विसंसेरुना/औभा/ई-दरपत्रके/ 5619 दिनांक - २९/०९/२०२६ 12026

Web Site Quotation Notice No. ०२/२०२६

Date- २९.०९.२०२६

Open Notice

Medical Superintendent Regional Referral Hospital, Nashik invites quotations (2 Envelope System) to purchase of following Items from eligible Supplier. The Supplier who is interested please see terms & Conditions & Submit the Quotation in prescribed Manner. Use Separate Envelopes for Technical Bid & Financial Bid.

Sr No	Name of Item	Specification
01	Sternum Wire (TS649P4)	44 mm 1/2 circle Blunt point Round Body cutting Monofilament 316 LVM stainless steel Sterile Non-Absorbable Surgical Suture Sterilised Surgical Needle Suture 4 X 45 CM (12 Pouches per box)
02	TEMPORARY CARDIAC PACING WIRE (TP6026QA)	cFEP 15/24 Packs 2-0 (3 metric / Ph.Eur.) Length : 60 cm Gauge : 0.3 mm Sterile, Non Absorbable Surgical Suture, U.S.P. TEMPORARY CARDIAC PACING WIRE [Electrode] MULTIFILAMENT 316L Stainless Steel Coated, sheathed wire with polyethylene. • 26 mm cV-7 • 1/2 CIRCLE • CUT TAPER • 63 mm • STRAIGHT CUTTING EDGE, • BREAKAWAY NEEDLE
03	Adult Laryngoscope with blade	As per DHS Specification
04	Paediatric Laryngoscope with blade	As per DHS Specification
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07	Silicon DJ Stent 5x24	1
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10	Silicon DJ Stent 4x20	1
11	Thermiseal liquid	100 ml Solution- Feracrylum (1% w/v)
12	Cardiac Monitor	As per DHS Specification
13	ECG Machine-12 LED	As per DHS Specification

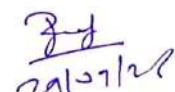
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14	Ursl forceps Triprong 3 FR	Make should be ➤ Boston scientific, ➤ Veiva scientific, ➤ Spg medisafe pvt ltd ➤ Urosafe, ➤ Aster, ➤ Blue neem ➤ Biorad
15	Ursl forceps Biprong 3 FR	
16	Ursl forceps Lithoclast probe 1 mm	
17	Ursl forceps Lithoclast probe 1.2mm	
18	Pcni forceps clot holding forcprps 7PR (40cm)	
19	Pcni Lithoclast probe 2mm	
20	Probe cystolithotripsy probe 1.5mm	
21	PCNL Rod	
22	Screw dillator PCNL-05	
23	D.J. Removal forceps (6FR,7FR)	
24	D.J. Removal forceps (6FR,7FR)	
25	Hambies knife 	SS Humby Skin Grafting Knife With Sterilized Blade Size 158 mm
26	Pneumatic Tourniquate HN kit	As per DHS Specification
27	Uretero renoscope flexible forcepe 6 x 7.5 Fr Grassper Triprong (Make-Olympus)	Make-Olympus
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30	Metzenbaum Scissor Blunt (Curved, 7")	• Versatile Operating Scissor for Delicate Tissues: Ideal for precise dissection of delicate tissues in confined surgical spaces. • General Surgery Application: Widely used in general surgery to achieve accuracy and precision during procedures. • Blunt/Blunt Tip Configurations: Designed with blunt/blunt tip configurations, minimizing the risk of accidental damage to adjacent structures. • Narrow Jaws for Precision: Features narrow jaws, making it perfect for precise cutting of delicate tissue with minimal trauma to surrounding structures. • Ergonomic Ring Handles: Ergonomically designed ring handles ensure effortless and comfortable dissection, reducing surgeon fatigue. • Streamlined Body Design: Specifically designed streamlined body with smooth outer edges enables easy access to restricted surgical areas, enhancing manoeuvrability. • Enhanced Control: Equipped with ergonomic ring handles and a rivet screw joint, providing better

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31	HIV KIT	<u>Disposable Full Body Fluid-Resistant Protective Kit – Technical Specifications</u> 1. Disposable Full-Sleeve Gown ○ Made of non-woven Spunbond–Meltblown Spunbond (SMS) fabric. ○ Fabric weight: 40–50 GSM or higher. ○ Should provide 100% fluid-resistant / non-permeable protection. ○ Should provide Level III fluid barrier protection. ○ Full-sleeve design with adequate overlap and secure fastening. 2. 3-Ply Surgical Face Mask ➤ Three-layer disposable surgical mask with adjustable nose clip. ➤ Hypoallergenic material. ➤ High Bacterial Filtration Efficiency (BFE) ≥99%. ➤ Comfortable and secure fitting around the nose and face. 3. Head and Neck Protection ➤ Hood/Cap/Monkey Cap covering the head, neck and front/side areas adequately. ➤ Should be disposable and fluid resistant. 4. Eye/Face Protection ➤ Transparent, anti-fog protective face shield made of durable plastic. ➤ Should provide adequate protection to the eyes and face against blood and other body fluids. 5. Leg and Foot Protection ➤ Waterproof disposable leggings/leg covers. ➤ Long shoe covers extending up to knee length. ➤ Leg and shoe covers should provide adequate protection against penetration of blood, urine and other body fluids. should include: • Full-sleeve disposable fluid-resistant gown • 3-ply surgical face mask with nose clip • Hood/Cap/Monkey cap • Transparent anti-fog face shield • Long waterproof leggings • Long shoe covers extending up to knee length.

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33	ABG Machine's Calibration Gas OPTI CCA-TS2 Blood Gas and Electrolyte Analyzer	Calibration Gas REF: No. BP7162 Calibration Gas / Kalibreringsgas / Gaz de Calibrage / Gas di Calibracione / Gas de Calibracion / Gas de Calibracao / Kalibreringsgas / Kalibreringsgas / Kalibreringsgas / Air pro (Bohoulouyong) / 校准气体 / 校准气体 / 校准气体 / 校准气体																		
34	ABG Machine's Cassete OPTI cassettes Model-OPTI CCA -TS2 Blood Gas & Analyser	OPTI CCA-TS2 Analyzer  OPTIMedica 																		

टीप :-उपरोक्त बाबींच्या Technical Specification (तांत्रिक विनिर्देश) बाबत काही समस्या असल्यास रुग्णालयाशी संपर्क साधावा किंवा समक्ष/ प्रतिनिधी पाठवून नमुना परीक्षण करून दर भरावा.


Medical Superintendent
Regional Referral Hospital,
Nashik

o/c 

21/01/21

Submission :-

1	Submission of quotation by Hand Delivery or her/his own Risk by post or Courier before Last Date	Last Date- 07.10.2026 Time Before- 4 PM
2	Opening of Quotation	Date- 08.10.2025. Time -12 To 1 PM Place-Regional Referral Hospital,Nashik

Terms & Condition :-

1	Rates	Including all Taxes
2	Delivery	Medical Store, Regional Referral Hospital, Nashik
3	Acceptance of Rates	Minimum 3 Quotations are required for comparative Rates. Lowest rates will be accepted.
4	Delivery	7 Days from the date supply order. If Unable to supply within stipulated period penalty will be deducted as per Govt. Rule
5	Payment	CMP/NEFT/Cheque
6	Self-Attested Document (Technical Bid)	Supplier Should submit 1.Shop Act License 2.GST registration certificate 3.PAN Card Copy 4.Annexure 1 .2 on Letter Pad 5.Drug license 6.Company Authorization Letter for Supply
7	Rate Format (Price Bid)	To Be Prepare on Letter Pad only Duly Signed by supplier with Name & Rubber Stamp. DO Not write rate in handwriting or overtyping or use of Whitener & Use Separate Envelope For Price Bid

Disqualification Of Quotation:-

1. Failure Of Required Supplier Technical qualification.
2. Late Receipt of quotation envelope.
- 3.Rate format submission not in proper format.
- 4.If Quotations received only in one envelope, then will be disqualified.

विशेष टिपणी :-जर चुकीच्या Specification चे दर भरल्यास पुरवठादारास पुढील ०३ वर्षासाठी काळ्या यादीत टाकण्यात येईल याची गांभीर्याने नोंद घ्यावी

(Use 2 Seperate Envelopes for Technical Documents & Price Bid & Mention it on envelopes)

(Dr. Arun Pawar)

Medical Superintendent

Regional Referral Hospital, Nashik

28/09

28/09

On Letter Pad

Annexure -1

DECLARATION BY SUPPLIER

I/we herewith declare that, I/we have not quoted rate in this quotation greater than MRP or market rate. I/we have not quoted blacklisted Mfg. Company in this quotation. I/we or our firm employee are not related with Regional Referral Hospital, Nashik or their organizational Person.

मी/आम्ही असे जाहीर करतो की या दरपत्रकामध्ये किमान मुल्यापेक्षा अधिक दर नमुद केलेले नाहीत अथवा बाजारभावा पेक्षा अधिक दर नमुद केलेले नाहीत. या दरपत्रकात नमुद करणेत आलेली उत्पादक कंपनी ही काळ्या यादीतील नाही. मी किंवा माझे व्यवसायातील नोकर वर्ग यांचा विभागीय संदर्भ सेवा रुग्णालय नाशिक येथील संस्थेशी कोणतेही नाते वा हितसंबंध नाहीत.

Place-

Date-

Name, Signature Of Supplier

Seal & Rubber Stamp

On Letter Pad

Annexure -2

निविदाकाराचे हमीपत्र

मी/आम्ही मे.या हमीपत्रा द्वारे लिहून देतो की, दरपत्रक मागविणाऱ्या खरेदी प्राधिकाऱ्या बरोबर कोणत्याही प्रकारचे हितसंबंध नसुन हितसंबंधा बाबत संघर्ष नाही. तसेच खरेदी प्राधिकाऱ्याकडे सादर करण्यात करण्यात आलेले दरपत्रक हे एकल असुन दुसऱ्या कोणत्याही संस्थेसोबत संयुक्तरीत्या किंवा संगणमताने साखळी करून दरपत्रक भरलेले नाही, असे आढळून आल्यास नियमानुसार योग्य त्या दंडात्मक कार्यवाहीस पात्र राहील.

दिनांक:

ठिकाण:

दरपत्रक सादर कर्त्याची स्वाक्षरी व शिक्का

Rate Format

To,
Medical Superintendent
Regional Referral Hospital,
Nashik

Sub-Submission Of Quotation

Ref-Your Office Quotation Notice No.जा.क्र.विसंसेरुनाशिक/औ.भांडार/दरपत्रके/ /२०२६

दि. / / २०२६

Resp Sir/Madam

With ref to above subject I/We are here with submitting quotation for Govt. Hospital Purchase

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34	ABG Machine’s Cassete OPTI cassettes Model-OPTI CCA -TS2 Blood Gas & Analyser																			

1. Rate with Inclusive all taxes.
3. Delivery 7 Days

2. For Destination
4. Payment 100 % after Supply of Item

Name, Signature Of Supplier
Seal & Rubber Stamp

TECHNICAL SPECIFICATIONS "LARYNGOSCOPE – Adult "

GMDN name		Laryngoscopes
GMDN code		CT1723
1	Clinical purpose	For viewing vocal folds and glottis. Surgical and mechanical ventilation/ intubation
2	Used by clinical department/ward	O.T / ICU / NICU/ Casualty.
3	Technical characteristics (specific to this type of device)	1) A non-sterile, portable, battery-powered device intended to provide the light source for a laryngoscope (i.e.rigid intubation type) when fitted into the laryngoscope handle. It typically consists of a removable cylindrical cell that produces light which is emitted from the laryngoscope handle via a fibreoptic laryngoscope blade for airway illumination. The device may be kinetically or electrically recharged. This is a reusable device. 2) A light source on or via the blade illuminates the larynx to allow viewing and tube passage. The unit is handheld with internal batteries and has interchangeable, rigid, straight blades of different Adult sizes. 3) Fiber optic Laryngoscope- preferably should be reusable using the latest LED technology. The main body of the handle should incorporate an excellent grip & should feel even wearing a gloves. 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. The unit should allow the blade to be inserted easily & should provide a positive locking mechanism when moved in to the closed position.
4	User's interface	Manual
5	Software and/or Standard of Communication (Where ever required)	Not Applicable
6	Dimensions (metric)	Not Applicable
7	Weight (lbs, kg)	Light weight (up to 500 gms)
8	Configuration	Handheld unit, single piece when in use; On/off switch to be robust and easy to use; External material to be non-ferrous; Blades to be surgical grade stainless steel; Supplied in protective, re-closable container.
9	Noise (in dBA)	Not Applicable
10	Heat dissipation	Not Applicable

(Mr. Manish Magre)
**Bio Medical
Engineer**
H.E.M.R.O/o DDHS
Aurangabad

(Mr. Madhav Katre)
**Bio Medical
Engineer**
Regional Referral
Hospital Nashik

(Dr. Rajendra Patil)
Physician
Medical Sudt
Women Hospital
Jalna

(Dr. Narayan Dhumal)
Anesthesiologist
Medical Officer
Dist Hospital,
Aurangabad

(Dr. Pradeep Kulkarni)
Anesthesiologist
Medical Officer-1
Women Hospital
Jalna

DR. PINAKIN GUJJAR
M.D., D.A./R.O.M.
DEPARTMENT OF ANESTHESIOLOGY
K. J. Somaiya Institute of Postgraduate Medical Education
Civil Hospital, Jalna
JALNA - 431 006.

TECHNICAL SPECIFICATIONS "LARYNGOSCOPE - Adult "

GMDN name		Laryngoscopes
GMDN code		CT1723
11	Mobility, portability	Yes, storage box should be provided
12	Power Requirements	Independent of external source.
13	Battery operated	Internal batteries, rechargeable preferred Battery charger (if rechargeable), Battery compartment (if reusable) to be sealed against liquid ingress, yet easily opened.
14	Tolerance (to variations, shutdowns)	Not Applicable
15	Protection	TO be declared by the supplier
16	Power consumption	3V lithium battery; 2 Nos.
17	Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables / reagents (open, closed system)	1. Rechargeable Batteries-02 sets, appropriate charger, blades of Adult sizes (1 & 2 Qty -02 No Each Size) 2. Spare Handle 3. 3 bulbs / 3LED should be given as spare
18	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%. Liquid splash resistant. Blades should be autoclavable.
19	User's care, Cleaning, Disinfection & Sterility issues	Should be autoclavable.
20	Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or international	FDA/CE; ISO 7376:2009 gives general requirements for laryngoscopes used for intubation, and specifies critical dimensions for the handle and lamp of hook-on type laryngoscopes. It also addresses the interchangeability of blades and handles.
21	Local and/or international	Manufacturer / supplier should have ISO certificate for quality standard.
22	Pre-installation requirements: nature, values, quality, tolerance	Not Applicable
23	Requirements for sign-off	Certificate of Calibration and inspection from the factory.
24	Training of staff (medical, paramedical, technicians)	Not Applicable

(Mr. Manish Magre)
Bio Medical
Engineer
H.E.M.R.O/o DDHS
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Dist Hospital,
Aurangabad

(Dr. Pradeep Kulkarni)
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DR. PRAKIN GUJJAR
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DIVISION OF PUBLIC HEALTH
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TECHNICAL SPECIFICATIONS "LARYNGOSCOPE – Adult "

GMDN name		Laryngoscopes
GMDN code		CT1723
25	Warranty	3 years ; LED up to 6 months
26	Maintenance tasks	Autoclave
27	Service contact No, including detail Address	Manufacturer, Sole Distributors, Local dealer.
28	Operating manuals, service manuals, other manuals	Advanced maintenance tasks required shall be documented. User, technical and maintenance manuals to be supplied in English, Marathi language, along with machine diagrams. List to be provided for procedures required for routine maintenance.
29	Other accompanying documents	Not Applicable
30	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	Not Applicable
31	Recommendations or warnings	Any recommendations for best use and supplementary warning for safety should be declared.
Specification Done by :		Technical Specification Committee established, as per Govt of Maharashtra, Public Health Department G.R. Dated 11 March 2016
End user Specialist Meeting Date :		07/09/2017
Panel Specialist Meeting Date :		/09/2017

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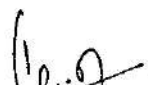
(Dr. Narayan Dhumal)
Anesthesiologist
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TECHNICAL SPECIFICATIONS "LARYNGOSCOPE - Pediatric"

GMDN name		Laryngoscopes
GMDN code		CT1723
1	Clinical purpose	For viewing vocal folds and glottis. Surgical and mechanical ventilation/ intubation
2	Used by clinical department/ward	O.T / ICU / NICU/ Casualty.
3	Technical characteristics (specific to this type of device)	1) A non-sterile, portable, battery-powered device intended to provide the light source for a laryngoscope (i.e. rigid intubation type) when fitted into the laryngoscope handle. It typically consists of a removable cylindrical cell that produces light which is emitted from the laryngoscope handle via a fibreoptic laryngoscope blade for airway illumination. The device may be kinetically or electrically recharged. This is a reusable device. 2) A light source on or via the blade illuminates the larynx to allow viewing and tube passage. The unit is handheld with internal batteries and has interchangeable, rigid, straight blades of different Pediatric sizes (Size 1 & 2) 3) Fiber optic Laryngoscope- preferably should be reusable using the latest LED technology. The main body of the handle should incorporate an excellent grip & should feel even wearing a gloves. 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. The unit should allow the blade to be inserted easily & should provide a positive locking mechanism when moved in to the closed position.
4	User's interface	Manual
5	Software and/or Standard of Communication (Where ever required)	Not Applicable
6	Dimensions (metric)	Not Applicable
7	Weight (lbs, kg)	Light weight (upto 500 gms)
8	Configuration	Handheld unit, single piece when in use; On/off switch to be robust and easy to use; External material to be non-ferrous; Blades to be surgical grade stainless steel; Supplied in protective, re-closable container.
9	Noise (in dBA)	Not Applicable
10	Heat dissipation	Not Applicable
11	Mobility, portability	Yes, storage box should be provided

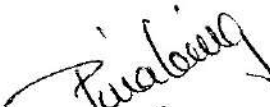

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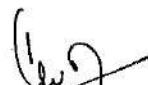

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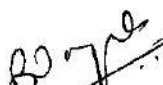

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 MUMBAI - 400 006.

TECHNICAL SPECIFICATIONS "LARYNGOSCOPE - Pediatric"

GMDN name		Laryngoscopes
GMDN code		CT1723
12	Power Requirements	Independent of external source.
13	Battery operated	Internal batteries, rechargeable preferred Battery charger (if rechargeable), Battery compartment (if reusable) to be sealed against liquid ingress, yet easily opened.
14	Tolerance (to variations, shutdowns)	Not Applicable
15	Protection	TO be declared by the supplier
16	Power consumption	3V lithium battery; 2Nos.
17	Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables / reagents (open, closed system)	1. Rechargeable Batteries-02 sets, appropriate charger, blades of Pediatric sizes (1 & 2 Qty -02 No Each Size) 2. Spare Handle 3. 3 bulbs / 3LED should be given as spare
18	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%. Liquid splash resistant. Blades should be autoclavable.
19	User's care, Cleaning, Disinfection & Sterility issues	Should be autoclavable..
20	Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or international	FDA/CE; ISO 7376:2009 gives general requirements for laryngoscopes used for intubation, and specifies critical dimensions for the handle and lamp of hook-on type laryngoscopes. It also addresses the interchangeability of blades and handles.
21	Local and/or international	Manufacturer / supplier should have ISO certificate for quality standard.
22	Pre-installation requirements: nature, values, quality, tolerance	Not Applicable
23	Requirements for sign-off	Certificate of Calibration and inspection from the factory.
24	Training of staff (medical, paramedical, technicians)	Not Applicable
25	Warranty	3 years ; LED up to 6 months
26	Maintenance tasks	Autoclave

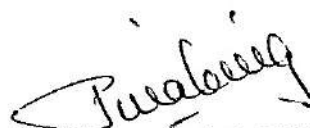

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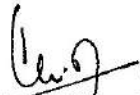

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TECHNICAL SPECIFICATIONS "LARYNGOSCOPE - Pediatric"

GMDN name		Laryngoscopes
GMDN code		CT1723
27	Service contact No, including detail Address	Manufacturer, Sole Distributors, Local dealer.
28	Operating manuals, service manuals, other manuals	Advanced maintenance tasks required shall be documented. User, technical and maintenance manuals to be supplied in English, Marathi language, along with machine diagrams. List to be provided for procedures required for routine maintenance.
29	Other accompanying documents	Not Applicable
30	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	Not Applicable
31	Recommendations or warnings	Any recommendations for best use and supplementary warning for safety should be declared.
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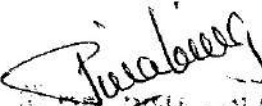

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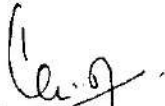

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TECHNICAL SPECIFICATIONS " Pneumatic Tourniquet Electronic "

GMDN name		Pneumatic Tourniquet Electronic
1	Clinical purpose	During surgery to get bloodless field & to avoid blood loss.
2	Used by clinical department/ward	Orthopedic
3	Technical characteristics (specific to this type of device)	
	1) Cuff Pressure	:- 100 to 500mm Hg
	2) Start Delay	:- 0 to 120 minutes
	3) Duration	:- 0 to 250 minutes
	4) Inflation	:- Motorized Pump
	5) Pressure Resolution	:- 2mm Hg
	6) Deflation	:- EMV or Manual Over-ride
	7) Accuracy	:- ± 3 mm Hg (set Pressure)
	8) Display	:- 16x2 Backlit LCD Display
	9) Operation	:- Micro Controller based control
	10) Elapsed Time Display	:- MM : SS format
	11) Alarms	:- Pressure Leakage / Elapsed Time / 5 min before Auto – Deflation
	12) Tourniquet	:- Neoprene Cuffs
	13) Cuff Sizes	Lower Limb 7.5 x 74 cm Upper Limb 6 x 33 cm Upper Limb 4 x 28 cm
4	User's interface, Setting	Manual
5	Software and/or Standard of Communication	Inbuilt
6	Dimensions (metric)	164(w) x 75(h) x 140(d)
7	Weight (lbs, kg)	1.5 Kg Approximately
8	Mobility, portability	Yes
9	Power Requirements	6 V DC Battery (Built -in charging circuit)
10	Battery operated	6 V DC Battery (Built -in charging circuit)
11	Power consumption	TO be declared by the supplier
12	Atmosphere / Ambiance (air conditioning, humidity, dust ...)	The unit shall be capable of operating continuously in ambient temperature of 10 to 40° C and relative humidity of 15-90%.
13	User's care, Cleaning, Disinfection & Sterility issues	The case is to be cleanable with alcohol.


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(Dr. Bhushan Ramteke)
Orthopedic Surgeon
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Dist. Aurangabad

TECHNICAL SPECIFICATIONS " Pneumatic Tourniquet Electronic "

GMDN name		Pneumatic Tourniquet Electronic
14	Certificates	FDA aproved The company should be ISO certified and products should be ISI mark.
15	Local and/or international	Manufacturer/supplier should have ISO certificate for quality standard
16	Requirements for sign-off	The company should be ISO certified and products should be ISI mark.
17	Training of staff (medical, paramedical, technicians)	Manufacturer/supplier should have ISO certificate for quality standard
18	Warranty	Three year with free servicing (min. 3/year) during warranty & provide technical support and required spares and consumable for 7 yrs after warranty period.
19	Maintenance tasks	Supplier to perform installation, safety and operation checks before handover Local clinical staff to affirm completion of installation
20	Service contract clauses, including prices	Training of users in operation and basic maintenance shall be provided Advanced maintenance tasks required shall be documented
21	Operating manuals, service manuals, other manuals	3 year Operating manual and Quick guide 2 copies in English/Marathi language
22	Other accompanying documents	Maintenance manual detailing complete maintaining schedule.
23	Recommendations or warnings	Any recommendations for best use and supplementary warning for safety should be declared.
Specification Done by :		Technical Specification Committee established, as per Govt of Maharashtra, Public Health Department G.R. Dated 11 March 2016
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 (Dr. Bhushan Ramteke)
Orthopedic Surgeon
 Medical Supdt
 Rural Hospital Karmad
 Dist. Aurangabad

Cardiac recovery.

SPECIFICATIONS OF MODULAR MULTI PARAMETER CARDIAC MONITOR - Qty Four

Sr.No.	Specifications
	System should have:
	Six channel high-resolution colour TFT display of minimum screen size ~~17"~~ ~~or more.~~ 17" or more.
	Should have facility to monitor ECG (3/5L), NIBP, SpO2 (possibility for two SpO2 module), Respiration, Temperature, IBP (max 5), Capnography, Anesthesia Gas Monitoring and Cardiac Output.
1	ECG monitoring 3 Lead or 5 Lead with ST segment analysis and programmable arrhythmia detection
2	Pulse Oximetry (SPO2) — Display of plethysmograph, pulse strength & SPO2 values. Pitch variation with change in oxygen saturation.
3	Non Invasive Blood Pressure (NIBP) - Measurement and display of systolic, diastolic and mean pressure values of NIBP measurement through Oscillometric method for adult, child & neonate. User selectable alarm settings, Mode Manual, STAT (continuous 5 minute operation) and automatic (selectable time interval 2 — 90 minutes).
4	Temperature — (possibility for three channel)
5	Respiration -- Impedance Pneumography principle, display of respiration waveform with respiration rate.
6	Invasive Blood Pressure — Simultaneous monitoring of 5 channel, and display of systolic, diastolic and mean pressure values with respective waveform with overlapping facility.
	Minimum 15 digital display possibility on main screen.
	Should be compatible with any VGA monitor (TFT/CRT).
	72 hr. non-volatile graphical / tabular trends and should have facility to store minimum 5 patient's data if required.
	Short trend display possibility on main screen for displayed

Sr.No.	Specifications
	waveforms.
	ST segment analysis should be possible for simultaneous three leads with separate special trend apart from 72hrs trend.
	Should display critical alarm summary for at least last 16 alarm conditions.
	Should have ECG strip storage (minimum 16) & page storage facility (minimum 5)
	Suitable for Adult to neonatal applications.
	Must have Graded F Colour coded visual / audio alarms (2 stage)
	Automatic , Default & Manual alarm settings.
	Recording facility
	User selectable, factory set and user set screen format should be possible with auto waveform spacing
	•Should have features like NIBP on HR alarm, Record on alarm, Waveform Standby, Monitor standby, Grid on/off, patient admit/discharge.
	User-friendly menu driven functions through optical encoder.
	Networking facility with central nursing station.
	Conforming to International standards - IEC 60101-1, IEC 1000- 2-27, IEC 1000-1-2, IEC 1000-2-49.
	Should be CE certified
	Should be supplied with: CPU, Racks (asper requirement), display & Wired remote.

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Dr. Sushant Patil
Consultant - CVTS
RRH, Nashik

P. J. Patil
1/2/19

M. G. Katre
Sr. BME, RRH Nashik

Dr. Nirmal Kachor
Consultant RRH Nashik
CVTS

Mr. Sankar
Pres / head
CVTA / KEM Mumbai.

11/2/19
Seshu me & K. S. me

TECHNICAL SPECIFICATIONS

Sr.No.	Name of Equipment
	ECG Machine 12 Channel
	ECG Machine is primary equipment to record ECG Signal in various configurations. 12 Channel with interpretation is required for recording and analyzing the waveforms with special software.
	Operational Requirements
	The ECG Machine should be able to acquire all 12 Leads simultaneously and interpret them. Should be easily portable & should be provided with Handle.
	Technical Specifications.
	Should acquire simultaneous 12 lead ECG for both adult and pediatric patients. Should be upgradeable to 18 lead ECG.
	Should have Real time Color 7" LCD display of ECG waveforms
	Sensitivity: 10 mm/mV $\pm 2\%$,
	Common mode rejection ratio: ≥ 100 dB,
	Frequency response: 0.05 Hz to 150 Hz ,
	Electrode check: Every electrode except N(RF),
	Waveform status detection: Electrode detachment
	Should have Artifact, Hum, Drift & EMG suppression Filters .
	Should have an inbuilt storage memory of at least 400 ECGs with easy transfer by optional data card.
	Should display all 12 lead waveforms on the screen for quality assessment checks prior to print.
	Should have interpretation facility of the amplitudes, durations and morphologies of ECG waveforms and associated rhythm for adult and pediatric patients. (Approx, 200 Clinical Findings and 5 Judgemental categories)
	Analysis sampling rate: 500 samples/s , Acquisition sampling rate: 8000 samples/s
	Should have facility of 1 minute cascaded ECG recording & rhythm recording for 1 or 3 ch
	Should have auto extended recording when arrhythmia is detected
	Should have alphanumeric Keyboard for patient ID Entry (virtual or hard keys)
	Should have High resolution 210 mm size printer using thermal sensitive paper.
	Should have battery capacity of at least 30 minutes of continuous rhythm recording on single charge.
	Recording data: Program type, version, date and time, paper speed, sensitivity, lead name, filter, hospital name, patient information (ID number, name, sex, age), timing mark, event mark, electrode detachment, Noise.
	Display: Color LCD/TFT adjustable Screen of 7" size.
	Weight – approx 2.5Kg
	Easy data transfer by wired & Wireless LAN(option)
	Wired/Wireless connectivity to Network printer
	ECG Viewer Software- Option
	Bar code reader – Option
	DICOM Compatibility- Option
	Upgradeability- To 18 Lead ECG
	System Configuration Accessories, spares and consumables
	ECG Machine with Interpretation facility-01
	12 Lead Patient Cable-01
	Chest Electrodes Adult-(set of six) -01 sets.
	Chest Electrodes Pediatric-(set of six) -01 sets
	Thermal Paper 210 mm Size 5 rolls
	Environmental factors
	Shall meet IEC-60601-2-51-“Essential performance of recording and analyzing single channel and multichannel electrocardiographs”
	Protection against electric shock, Defibrillator & Harmful ingress of water.

	Powersupply
	Power input to be 220-240VAC, 50Hz fitted with Indian pit
	Should be FDA or CE approved product
	Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms.