कर्णाली स्वास्थ्य विज्ञान प्रतिष्ठान

शिक्षण अस्पताल, जुम्ला

COVID-19 निदानको लागि आवश्यक सामग्रीहरु आपूर्ति सम्वन्धि कार्य

सुचना प्रकाशित मितिः २०७६।१२।२९



कर्णाली स्वास्थ्य विज्ञान प्रतिष्ठान

शिक्षण अस्पताल, जुम्ला

वेवसाइट: www.kahs.edu.np

फोन नं : ०८७ ५२०३५५



कर्णाली स्वास्थ्य विज्ञान प्रतिष्ठान

शिक्षण अस्पताल, जुम्ला (सूचना प्रकाशित मिति २०७६/१२/२९)

COVID-19 निदानको लागि आवश्यक सामग्रीहरु आपूर्ति सम्वन्धि कार्यका लागि प्रस्ताव आव्हान

विश्वव्यापी माहामारीका रुपमा फैलिएको COVID-19 को रोकथाम, नियन्त्रण तथा उपचारका लागि Isolation Ward, प्रयोगशाला र ICU सेवा विस्तारका लागि आवश्यक पर्ने विभिन्न सामग्रीहरु सार्वजनिक खरिद ऐन २०६३ को दफा ६६ तथा सार्वजनिक खरिद नियमावली २०६४ को नियम १४५ र कर्णाली स्वास्थ्य विज्ञान प्रतिष्ठानको आर्थिक प्रशासन नियमावली २०६९ बमोजिम विशेष परिस्थितिमा तत्काल खरिद गर्नु पर्ने भएको हुँदा इजाजत प्राप्त इच्छुक फर्म, कम्पनी वा आपूर्तिकर्ताहरुले तपशिलका शर्त भित्र रिह यो सूचना प्रकाशित भएको मितिले पाँच (५) दिन (कार्यालय समय) भित्र यस प्रतिष्ठानको ईमेल ठेगाना info@kahs.edu.np मा प्रस्ताव पेश गर्न हन जानकारी गराईन्छ।

- १. यो सूचना प्रकाशित भएको मितिले ५ औं दिन (मिति २०७७/०१/०३) को ५:०० बजे (कार्यालय समय) भित्र यस प्रतिष्ठानको email: info@kahs.edu.np मार्फत आफ्नो प्रस्ताव पेश गर्नु पर्नेछ ।
- २. रित पूर्वक पेश भएका प्रस्तावहरु प्रस्ताव बुक्ताउने अन्तिम मिति समाप्त भए पश्चात यस प्रतिष्ठानमा प्रस्तावदाता वा निजको प्रतिनिधिको रोहवरमा खोलिने छ । प्रतिनिधि उपस्थित नभएपिन प्रस्ताव खोल्न वा मुल्याङ्कन गर्न वाधा पर्ने छैन ।
- ३. प्रस्तावदाताहरुले अनुसूचि "क" बमोजिमका उल्लेख भएका सम्पूर्ण सामग्रीको आफूले कबोल गरेको मु. अ. कर बाहेकको दररेटलाई अङ्क र अक्षर दुवैमा अनिवार्य रुपमा लेखिएको हुनु पर्नेछ । अङ्क र अक्षरमा फरक परेमा अक्षरमा लेखिएकोलाई मान्यता दिइनेछ ।
- ४. प्रस्तावदाताले आफुले आपूर्ति गर्ने सामग्रीहरुको स्वच्छ तथा उचित मुल्यका साथ आपूर्ति गर्ने सामग्रीहरुको स्पेसिफिकेसन सहित प्रस्ताव पेश गर्नु पर्नेछ ।
- ५. प्रस्तावदाताले प्रस्ताव पेश गर्दा सामान आपूर्ति गरि जडान गर्न लाग्ने समय समेत अनिवार्य खुलाई प्रस्ताव पेश गर्नु पर्नेछ ।
- ६. प्रस्तावदाताले प्रस्तावका साथ तपशिलमा उल्लेख गरिएका कागजातहरु अनिवार्य रुपमा पेश गर्नु पर्नेछ
 - (क) अनुसूचि "क" मा उल्लेख भएका (आफुले आपूर्ति गर्न चाहेका) सामग्रीहरुको अङ्क र अक्षरमा दररेट उल्लेख गरेको संलग्न अनुसूची (क) दररेट पत्र,
 - (ख)आ.व. २०७५।०७६ को कर चुक्ता प्रमाणपत्र वा कर चुक्त नगरेको भए म्याद थप गरेको पत्र समावेश गर्नु पर्ने छ।
 - (ग) उद्योग, कम्पनी तथा फर्म दर्ता प्रमाणपत्र ।



- (घ) प्यान नम्बर तथा मु. अ. कर लाग्ने सामानहरु आपुर्ति गर्ने कम्पनीहरुको हकमा मु. अ. कर खर्ता भएको प्रमाणपत्र ।
- (ङ) खरिद कारवाहीमा भाग लिन अयोग्य नभएको, प्रस्तावित खरिद कारवाहीमा आफ्नो स्वार्थ नबािभएको र सम्विन्धित पेशा वा ब्यवसाय सम्वन्धी कसुरमा आफूले सजायं नपाएको भनी लिखित रुपमा गरेको घोषणापत्र ।
 - (च) आपूर्ति गर्ने सामग्रीहरुको प्राविधिक स्फोसिफिकेसन ।
- प्रस्तावदाताले दररेट उल्लेख गर्दा केरमेट गरेको, टिपेक्स लगाएको ठाउँमा सिहछाप नगरेको, वा आफ्नो तर्फबाट क्नै शर्त राखी पेश गरेको बोलपत्रलाई मान्यता दिईने छैन ।
- कुनै पिन प्रस्ताव आंशिक वा पूर्ण रुपमा स्वीकृत गर्ने वा नगर्ने सम्पूर्ण अधिकार प्रतिष्ठानमा निहित
 रहनेछ । म्याद नाघेको र रीत नपुगेको प्रस्ताव उपर कुनै कारवाही गरिने छैन ।
- ९. उल्लेखित सामग्रीहरु आपूर्तिकर्ताले प्रस्ताव स्वीकृत भएको मितिले १० दिन भित्र यस प्रतिष्ठानको केन्द्रिय कार्यालय जुम्लामा आपूर्ति गर्नु पर्नेछ ।
- १०. प्रतिष्ठानको आवश्यकता अनुसार सामग्रीहरुको परिमाण निर्धारण गरि माग गरिनेछ ।
- ११. यस अन्तर्गत सामग्री खिरद कार्यको प्रितस्पर्धा प्रत्येक सामग्रीहरुको छुटा छुटै गिरने भएको हुदा कुनै पिन प्रस्तावदाताले एक वा एक भन्दा वढी सामग्रीहरु विड गर्न सिकनेछ।
- 9२. संभौता गरी सामान आपूर्ति नगर्ने फर्मलाई नियमानुसार कालोसूचीमा दर्ताको लागि सम्विन्धित निकायमा लेखि पठाइनेछ ।
- १३. आपूर्तिकर्ताले आपूर्ति गरेका प्रत्येक सामग्रीहरुको कम्तीमा पनि १ वर्षको वारेन्टी अवधि रहनेछ ।
- 9४. आपूर्तिकर्ताले सामग्रीहरु यस प्रतिष्ठानमा आपूर्ति गरिसके पश्चात आवश्यक जडान र संचालन गरेर समेत देखाउनु पर्नेछ ।
- १५.यस सूचनामा छुट् हुन गएको अन्य शर्तहरुको हकमा यस सूचनामा उल्लेख भए अनुसार तथा कर्णाली स्वास्थ्य विज्ञान प्रतिष्ठान आर्थिक प्रशासन नियमावली २०६९, सार्वजिन खरिद ऐन २०६३ र सार्वजिनक खरिद नियमावली २०६४ मा उल्लेख भए अनुसार हुनेछ ।
- १६. यस बारेमा अन्य जानकारी आवश्यक परेमा प्रतिष्ठानको मुख्य कार्यालय जुम्लामा सम्पर्क राखी बुभ्त्न सिकनेछ ।



रकम भुक्तानी सम्बन्धी व्यवस्था

प्रतिष्ठानबाट माग भए अनुसारको परिमाणका सामग्रीहरु ढुवानी भई गुणस्तर जाँच भई स्टोर दाखिला भएपछि आपूर्तिकर्ताले सम्वन्धित कार्यको विल पेश गर्नु पर्नेछ । यस्तो भुक्तानी एकाउन्टपेयी चेकबाट गरिने छ र आपूर्तिकताको तर्फबाट व्यहोर्नु पर्ने सम्पूर्ण करहरु लगायत नियमानुसार कट्टा गर्नु पर्ने रकम कट्टा गरेर मात्र भुक्तानी दिइनेछ ।

विवादको समाधान

कुनै विवाद भएमा आपसी समभ्रदारीमा समाधान हुन नसकेमा प्रतिष्ठानको निर्णय नै अन्तिम हुनेछ । साथै सम्भौता अनुसार कार्य गर्दा कुनै वाधा अड्काउ परेमा आपसी सहमतिद्वारा समाधान गर्न सिकनेछ ।

कानूनी उपचारको ब्यबस्था

यस प्रतिष्ठानले गरेको खरिद कारवाही वा निर्णय गर्दा कुनै त्रुटि हुन गएमा वा केहि विवाद भएमा सो सम्बन्धमा सार्वजिनक खरिद ऐन २०६३, सार्वजिनक खरिद नियमावली २०६४ र कर्णाली स्वास्थ्य विज्ञान प्रतिष्ठानको आर्थिक प्रशासन नियमावली २०६४ बमोजिम हुनेछ ।



TECHNICAL SPECIFICATION:

1. Real Time PCR Machine:

Technical Specification for Real Time PCR with DNA detection / extraction System

S.N	. Purchaser's Specifications	Bidder's Compliance Sheet			
	Real Time PCR with DNA detection/ extraction System	Yes/No	Page No. in Catalogue	Remarks	
	Manufacturer			1	
	Brand				
	Type/Model			-	
	Country of Origin				
1	Description of Function			-	
1.1	Real Time PCR is an instrument that employs precise temperature control and rapid				
2	Operational Requirements	N	= -		
2,1	Real Time PCR Thermal Cycler system along with spinner of micro centrifuge tubes and pcr tubes.				
3	System Configuration			-	
3.1	Real Time PCR Thermal Cycler system with automatic DNA extraction / detection System			4	
4	Technical Specifications for Real Time PCR			-	
4.1	Thermal Cycle System: Peltier based 96 well format				
4.2	Calibrated Dyes: FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/TAMRA/Cy3, JUN, ROX/ Texas Red, Mustang Purple, Cy5/LIZ				
4.3	Reaction Volume: 10 - 50 µL	200			
4.4	Sample Format: 0.1ml PCR tubes × 96, 8× 12 PCR plate or 96 well plate × 1	111		17.	
4.5	Temperature Accuracy: ± 0.2°C			-	
4.6	Temperature Uniformity: ± 0.2°C		7	-62	
1.7	Temperature range: 4 - 100°C				
4.8	Max. Heating/Cooling rate: 6 °C/sec or more				
1.9	Temperature gradient setting range: 30 - 100°C				
10	Temperature gradient difference setting range: 1 – 36°C		100		
11	Consumables: 0.1 ml PCR tubes, 8 tube strips, 96 well plates				

5	7				
5.	The state of the s				
5.	separating technology		+		
5.	efficiency LEDs		1 110	10	
5.4	Excitation/detection wavelength range: 455-650nm/510-715nm				1 2
5.5	Fluorescent channels: 4/6 channels			7. 5	
5.6	Sensitivity: Single copy gene		1		
5.7	Desclutions 1 32 Cd4 1 1000				
5.8			1	3	
5.9	Contamination Protector: The system must have contamination protector so as to avoid DNA carryover contamination.				+
5.10	Software: Should have user friendly software for data analysis	. 88.		7//	
6	Computer Requirement:	7.1			1 50
6.1	PC/Laptop Configuration: CPU core 13/17, 2.7 GHz or above; minimum 4 GB RAM; minimum 500 GB Hard Disk Drive; High Speed DVD R/W: Keyboard (IOS), Mouse and Mouse Pad; Preloaded latest MS Windows Versions activated; Monitor size 19" or higher				
7	Accessories, Spares and Consumables		1500		100
7.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	ai ,			
8	Operating Environment				
.1	UPS Backup of suitable rating for at least 30 minutes to be supplied for the entire system			8.2	11
.2	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			95	
3	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs to meet purchaser's country requirements. The power cable must be minimum 3 metres long.		1		13
-	Standards and Safety Requirements				

-	Must submit ISO 0001 as ISO 12465 2000		T		
9.1	2007				1112
9.2	CE or USFDA approved product certificate.				
10	User Training				-
10.1	Must provide user training (including how to use and maintain the equipment).		0		
11	Warranty		11		-
11.1	Comprehensive warranty for 2 years				-
12	Maintenance Service During Warranty Period				
12.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.		0);	9.	
13	Installation and Commissioning			3	1
13.1	Supplier must accomplish proper installation & commissioning on site,				
14	Documentation				
14.1	User (Operation) manual in English,				1
14.2	Service (Technical / Maintenance) munual in English.			1	
14.3	List of important spare parts and accessories with their part number and costing.	7		-	
15	General requirements		(A		
15.1	Supplier's must be responsible form timely maintenance and service			S	
15.2	supplier's must assure to supply required reagents and kits for minimum 5 years	re i			1/4
15.3	With the co-ordination of supplier's, user must get required training on regular basis		32		
	14.00				





2. PCR Reagent Kit (Corona Testing):

Reagent set supporting Real Time PCR Machine used for corona testing.

3. Video Laryngoscope:

Technical Specification of Video Laryngoscope specification:-

- Display monitor should not be more than 2.4"
- Display monitor should be fixed and mount on the blade.
- Monitor should have Video output capability to be compatible with external monitor and recording devices.
- Viewing angel should be at least 160 degree.
- It should work on common batteries and can be used continuously for more than 1 hour.
- The sterile blade should have design to provide minimal lifting of soft tissue and impact on teeth during laryngoscopy and intubation.
- Sterile blade should be available in channelled and non channelled version.
- Wide range of blade available for child and infant patient / Abubt
- Channel blade should be available at least in two sizes and Non-channel blade should be available in three sizes.
- Equipment should have Anti-Fog Lens and White LED light source.
- Equipment should be supply with pc of each size blade.
- Cost of disposable blades to be provide.
- Should meet international quality standards.
- Should have ISO and CE marks confirming to international standards of safety.



4. Ventilator (Adjustable):

_	Technical Specification of ICU Ventilator
_	Technical Specification for Ventilator Machine
	Manufacturer:
	Model No. :
	Country of Origin :
	Made In :
	Brand:
	Type/Model:
ota	ndard Features
1	The Single knob ventilator should be Dual micro-processor controlled for easy future upgradability. Must have
-	Terretal compliance and leakage compensation.
2	and touch with at least 10" screen size or more
3	It should be suitable for use on Adult and Paediatric from 10 kg opwards
4	it should have automatic patient parameter setup based on Ideal Body weight Setting
5	It should operate on mains AC supply (220-240V, 50-60Hz).
6	It should be compressor based. The compressor should be supplied from the same manufacturer.
7	The machine should have weaning facility
8	Machine should have dual limb breathing system
sh	ould have following modes available:
9	Basic : A/C - vol & Press, SIMV- Vol & Press, PS and CPAP
10	\$46 - Walker Walker 1970
11	Non Invasive mode in pressure and volume modes in Volume and Pressure modes.
sh	ould have following settings controls/monitoring:
12	Tidal Volume : 50 ml to 2,000 ml or more.
13	
14	
15	Inspiratory time : 0.2 to 10.0 sec.
16	
7	
8	Pressure Support: 0-50 cmH2O or more
9	PEEP/CPAP : 0 to 35 cm H2O or more
0	Plateau time : 0.0 to 2.0 sec
1	
22	Flow pattern : Square & Descending ramp.
-	Rise time adjustment : 0 to 1500 ms or more.
4	Trigger Type : Pressure trigger (0.1 to 15 CmH2O) and Flow trigger (0.1 to 20 l/m)
5	Should have O2 flush for 2 mins for 100% FiO2
_	Should have manual inspiration setting in all modes for ambu like breaths
_	Montioring
6	Breathe Type indicator to display patient trigger for Controlled and Spont. Breaths
7	Delivered 02 %.
В	PEEP, PIP, Pmean, Pplat, Static compliance, dynamic compliance, Insp/Exp. Resistance
2	Exhaled and Spont minute volume.
	Exhaled Tidal volume.
_	I:E Ratio
	Rapid Shallow Breathing Index
	Spontaneous Inspiratory time (Ti Spont)
	Dynamic and static Compliance



36	The state of total PEEP
37	- Power cods nows - inspiration and expiration
38	I I Spont
Adv	anced Monitoring
39	It should display Volume - time curve, Pressure -time curve, Flow -time curve and Pressure -volume, Pressure -Flow -volume loop.
40	Curves & loops can be user-selectable to freeze with the flexibility to change scale horizontally or vertically or both with the adjustment facility of base line for analysis
Apn	ea Management
42	It should have user-defined apnea back-up ventilation in selectable mode of VC or PC
Alar	Should have automatic patient detection on patient connect. m Management
43	It should have following /A with a six
44	
45	
46	
47	High/Jour Exhalad enter the A
48	High/Low Exhaled minute volume High/Low exhaled Tidal volume
49	High Possiles and Aldal volume
50	High Respiratory rate Apnea
51	
52	Ventilator Inoperative
	Pressure/Flow Transducer failure
53	Occlusion and safety ventilation
cces	It should have trending (both Numeric/Tabular & Maneuaver) for 72 hrs atleast for all parameters sories
55	Adult reusable autoclavable circuits- 1 for each machine
56	Pediatric reusable autoclavable circuits - 1 for each machine
57	Adult test lung for each machine
58	Digital display humidifier with complete set - each for machine
erm	And Conditions:
59	The unit should be CE marked to European medical devices directive or FDA certificates must be valid.
50	The supplier must submit the original brochure or e-copy.
51	The supplier should fill the technical tender form and clearly mention the manufactures, modelno., and country of origin/ Made in, else technically will be disqualified.
2	If the technical team wants to examine physically which is not supplied in our hospital, the demonstration of the quoted model may be required during the technical evaluation. The evaluation is also based on the demonstration of the machine. If the bidder can't demonstrate the machine within the requested time, bid will be automatically disqualified.
3	he bidder must submit a valid authorization from the manufacture.
4 5	should have 1 years complete parts (Including Reusable accessories) & service warranty and additional 1 years ervice warranty from the date of complete installation (delivery & Installation of machine of all the items as each
7	ender. he principle company should be responsible of fulfilling warranty/ guarantee, in case local authorized agent is not ble to achieve the same. The commitment letter of the same should be attached.



66	Onsite repair & maintenance training and operational training to the hospital's biomedical engineer, Biomedical technicians and users.	Ī
67	The machine supplied should be brand new with the date of manufacture mentioned and the country of origin should be clearly mentioned.	Ī
68	One (Hard and soft) copy of serve & operating manual in English for each set should be provided at the time of installation.	



Bedside Monitor -(7 600)

S No.		Purchaser's Specifications	Bidder's Offer
	Bedside Monitor		
	Manufacturer		
	Brand		1
	Type/Model		-
	Country of Origin		
1	Description of Funct	ions	
1.1	A bedside patient mor critical care units, ope	itor to monitor physiological parameters of patients in the rating theatres, emergency rooms or general wards.	1
2	Operational Require	ments	
2.1	It shall operate on AC not exceed 4 KG.	power supply as well as built-in battery the weight should	1 2
3	System Configuratio	ns	
3.1	Patient monitor with I EtCO2. It should have	CG, Resp., SpO2, NIBP, 2-ch x Temp, 2-ch x IBP and	
3.2	All accessories, consu physiological paramet	mables, wall mounts and etc. required for monitoring of ers specified herein.	
4	Technical Specificati	ons	
4.1	High resolution colour size for minimum of 8	flat panel non-reflective LED touch screen: > 12" display channel waveforms display	
4.2	Display of minimum of devices	f 8 physiological parameters without the need for external	V
4.3	Display waveform: EC	G, SpO2, pulse wave, respiration, IBP and Capnography.	
4.4	Diastolic and Mean), 5	pO2 and current time of NIBP measurement	
4.5	Use interaction via inte	grated touch screen, press nad/button and rotary book	
4.6	with powerful data sto tabular and graphic tre	rage for up to 48 hours of full disclosure, 1200 hours of	
4.7	Should have up to 100	arrhythmia events with associated waveforms; and	
4.8	Should have up to 100	alarm events with associated waveforms	
4.9	Should have Real Time	ST complex view and comparison	
1.10	other bed function to m accessing central statio	display to offer a clear view of all vital signs and view onitor other patients directly at the bedside without	
11.3	SpO2 trend, RR trend a	display for monitoring newborns, which shows HR trend, nd a compressed wave.	
.12	Should have personaliz	ed user setting and be duplicate among bedside monitors	
.13	Should have multi-char classification	nel arrhythmia analysis and 24 types of arrhythmia	
14	Should have ST analysi	s and ST templates	
.15	Should have Real Time		41
16	Should have 24 hours F	CG analysis summery	
17	Should have facilities of Qt/Qtc monitoring.	FQRS detection, Arrhythmia and St segment analysis,	
18	Should be able to perfor	m dose calculations and hemodynamic calculations,	
19	Should show Perfusion	Index (PI) numeric.	



SNo	Purchaser's Specifications	Bidder's Offe
4.20	In auto mode of NIBP, the monitor should show unit of pressure, time of last	
4.21	The second secon	
4.22	Should be able to view another monitor on a monitor screen without the use of a	
4.23	Should have I ishing In the	
4.25		
4.26	Should be no fan design	
4.27	Should have multifunctional output connector and can output ECG, IBP, Nurse call and defib sync signals at the same time by 1 connector.	
4.28	Should have RJ-45 or Wi-Fi for upgradation to central monitoring system.	
4.29	Should supply with wall mounting bracket for each monitors.	
	Parameter required:	
4.30	3 Lead ECG with cable, 1 set	
4.31	SpO2 Probe and connector, 1 set.	
4.32	NIBP connection hose and cuff, 1 set	No. of the last
4.33	Skin Temperature probe, 1 set	
4.34	IBP, 2 cable with 2 kit each	-
4.35	Side stream EtCO2 kit, 1 set	
4.36	Come with internal rechargeable I is in how	
4.37	Come with internal rechargeable Lithium battery complete with built-in charger	27
4.57	Monitor shall be operated by the hattery for at least 240 minutes	6
4.38	Come with Alarms for all monitored parameters including: exceeding user- selectable upper and lower limits, life threatening alarms, lead/ probe/ sensor disconnection, system failure or error.	
4,39	Alarm shall have at least 3 levels; Crisis, Warning, and Advisory	1
4.40	Alarm notification shall be given by Audible and Visual signal	
4.41	With networking capability to interface with the central monitor	
4.42	Must have IPX1 waterproof	
4.43	Must have RoHS compliance	
1.44	Must have type CF defibrillation proof for ECG, NIBP, SpO2, RESP, TEMP, IBP and C.O.	
5	Accessories, Spare Parts and Consumables	
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
6	Operating Environment	
5,1	The system offered shall be designed to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
.2	Power supply: 100 – 240VAC, 50-60Hz fitted with appropriate plug. The power cable must be at least 3m in length.	
	Standards & Safety Requirements	10
	Must submit ISO13485:2016 for Medical Devices AND	
	CE (93/42 EEC Directives) and USFDA approved product certificate.	



Shall meet IEC-60601-1-2:2007/AC:2010 General Requirements of Safety for Electromagnetic Compatibility. Shall meet the safety requirements as per IEC 60601-2-27:2006/AC:2006—Medical electrical equipment—Part 2: Particular requirements for the safety of electrocardiographic monitoring equipment. 8 User Training The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users. 9 Warranty 9.1 Comprehensive warranty for 1 years after acceptance. 10 Maintenance Service During Warranty Period During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required. 11 Installation and Commissioning The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail. 12 Documentation 13 User (Operating) manual in English 14 List of important spare parts and accessories with their part numbers and costing.	S No.	Purchaser's Specifications	Bidder's Offer
Shall meet the safety requirements as per IEC 60601-2-27:2006/AC:2006— Medical electrical equipment—Part 2: Particular requirements for the safety of electrocardiographic monitoring equipment. 8 User Training The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users. 9 Warranty 9.1 Comprehensive warranty for 1 years after acceptance. 10 Maintenance Service During Warranty Period During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required. 11 Installation and Commissioning The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail. 12 Documentation 13.1 User (Operating) manual in English 14.2 Service (Technical / Maintenance) manual in English 15.3 List of important spare parts and accessories with their part numbers and costing.		Shall meet IEC-60601-1-2:2007/AC:2010 General Requirements of Safety for Electromagnetic Compatibility.	
The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users. 9 Warranty 9.1 Comprehensive warranty for 1 years after acceptance. 10 Maintenance Service During Warranty Period During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required. 11 Installation and Commissioning The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail. 12 Documentation 12.1 User (Operating) manual in English 12.2 Service (Technical / Maintenance) manual in English 12.3 List of important spare parts and accessories with their part numbers and costing.	7.4	Shall meet the safety requirements as per IEC 60601-2-27:2006/AC:2006— Medical electrical equipment—Part 2: Particular requirements for the safety of	
8.1 use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users. 9 Warranty 9.1 Comprehensive warranty for 1 years after acceptance. 10 Maintenance Service During Warranty Period During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required. 11 Installation and Commissioning The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail. 12 Documentation 12.1 User (Operating) manual in English 12.2 Service (Technical / Maintenance) manual in English 12.3 List of important spare parts and accessories with their part numbers and costing.	8	The state of the s	
9.1 Comprehensive warranty for 1 years after acceptance. 10 Maintenance Service During Warranty Period During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required. 11 Installation and Commissioning The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail. 12 Documentation 12.1 User (Operating) manual in English 12.2 Service (Technical / Maintenance) manual in English 12.3 List of important spare parts and accessories with their part numbers and costing.	8.1	use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected	
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During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required. 11 Installation and Commissioning The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail. 12 Documentation 12.1 User (Operating) manual in English 12.2 Service (Technical / Maintenance) manual in English 12.3 List of important spare parts and accessories with their part numbers and costing.	9.1	Comprehensive warranty for 1 years after acceptance.	
10.1 maintenance (PPM) along with corrective/breakdown maintenance whenever required. 11 Installation and Commissioning The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail. 12 Documentation 12.1 User (Operating) manual in English 12.2 Service (Technical / Maintenance) manual in English 12.3 List of important spare parts and accessories with their part numbers and costing.	10	Maintenance Service During Warranty Period	
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11.1 certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail. 12 Documentation 12.1 User (Operating) manual in English 12.2 Service (Technical / Maintenance) manual in English 12.3 List of important spare parts and accessories with their part numbers and costing.	11	Installation and Commissioning	-
12.1 User (Operating) manual in English 12.2 Service (Technical / Maintenance) manual in English 12.3 List of important spare parts and accessories with their part numbers and costing.	11.1	certified or qualified personnel; any prerequisites for installation to be	
2.2 Service (Technical / Maintenance) manual in English 2.3 List of important spare parts and accessories with their part numbers and costing.	12	Documentation	
2.3 List of important spare parts and accessories with their part numbers and costing.	12.1	User (Operating) manual in English	
	12,2	Service (Technical / Maintenance) manual in English	7
2.4 Certificate of calibration and inspection from factory.	12.3	List of important spare parts and accessories with their part numbers and costing.	10000
	12.4	Certificate of calibration and inspection from factory.	



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6. Monitor- 5 Para:

Bedside Monitor (5 Pass)

SN	p. Purchaser's Specifications	Bidders Offe
	Bedside Monitor	
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
1	Description of Functions	
1,1	A bedside patient monitor to monitor physiological parameters of patients in the critical care units, operating theatres, emergency rooms or general wards.	
2	Operational Requirements	Arti - the
2.1	It shall operate on AC power supply or wall or built in battery and should have	
3	System Configurations	
3.1	Patient monitor with ECG, Resp., SpO2, NIBP and Temp	
3.2	All accessories, consumables, wall mounts and etc. required for monitoring of physiological parameters specified herein.	
4	Technical Specifications	-
4.1	High resolution colour flat panel non-reflective touch screen: > 10" display size for up to 7 channel waveforms display	
4.2	Display of up to 7 physiological parameters without the need for external devices	
4.3	Display waveform: ECG, SpO2, pulse wave, respiration.	7.200
4.4	Numeric data display: heart rate / pulse rate, respiration rate, NIBP (Systolic, Diastolic, Mean), SpO2 and current time of NIBP measurement.	
4.5	Use interaction via integrated touch screen, press pad/button and rotary knob.	
4.6	With powerful data storage for up to 48 hours of full disclosure, 1200 hours of tabular and graphic trends and 1600 NIBP measurements.	
4.7	Should have up to 128 arrhythmia events with associated waveforms; and	
4.8	Should have up to 1800 alarm events with associated waveforms	
4.9	Should have Real Time ST complex view and comparison	
1.10	Should have large font display to offer a clear view of all vital signs and view other bed function to monitor other patients directly at the bedside without accessing central station.	
.12	Should have OxyCRG for monitoring newborns.	
.13	Should have personalized user setting and be duplicate among bedside monitors	1739
.14	Should have multi-channel arrhythmia analysis and 24 types of arrhythmia classification	
.15	Should have ST analysis and ST templates	
	Should have Real Time QT/QTc monitoring	
	Should have 24 hours ECG analysis summery	
	Should have Lithium Ion battery to allow up to 4 hours (optional 8 hours) for	
	continuous monitoring	
19	Should have 0.75m drop protection	1/ = X = 1/1/2
20	Should have stop watch timer (count-up and count-down)	
21 :	Should be no fan design	
22 5	Should supply with wall mounting bracket for each monitors.	. = .
1	Parameter required:	
3 3	Lead ECG with cable, 1 set	Giga V



S No.	Purchaser's Specifications	Bidders Offer
4.24	SpO2 Probe and connector, 1 set.	
4.25	NIBP connection hose and cuff, 1 set	+
4.26	Skin Temperature probe, 1 set	
4.27	Come with internal rechargeable Lithium battery complete with built-in charger	
4.28	Monitor shall be operated by the battery for at least 240 minutes	-
4.29	Come with Alarms for all monitored parameters including: exceeding user- selectable upper and lower limits, life threatening alarms, lead/ probe/ sensor disconnection, system failure or error.	
4.30	Alarm shall have at least 3 levels: Crisis, Warning, and Advisory	
4.31	Alarm notification shall be given by Audible and Visual signal	157. 5-41
4.32	With networking capability to interface with the central monitor	
4.33	Must have IPX1 waterproof	
4.34	Must have RoHS compliance	
5	Accessories, Spare Parts and Consumables	11
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	14
6	Operating Environment	
6.1	The system offered shall be designed to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
6.2	Power supply: 100 - 240VAC, 50-60Hz fitted with appropriate plug. The power cable must be at least 3m in length.	
7	Standards & Safety Requirements	11
7.1	Must submit ISO13485;2003/AC:2007 for Medical Devices AND	54
7.2	CE (93/42 EEC Directives) and USFDA approved product certificate.	
7.3	Shall meet IEC-60601-1-2:2001 General Requirements of Safety for Electromagnetic Compatibility.	41
7.4	Shall meet the safety requirements us per IEC 60601-2-27:1994—Medical electrical equipment—Part 2: Particular requirements for the safety of electrocardiographic monitoring equipment.	-
8	User Training	
8.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.	
9	Warranty	
9.1	Comprehensive warranty for 1 years after acceptance.	
10	Maintenance Service During Warranty Period	
0.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
1.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
12	Documentation	
2.1	User (Operating) manual in English Service (Technical / Maintenance) manual in English	
2.2	e i ce i i l'Allie i i l'Allie i i i i i i i i i i i i i i i i i i	



S No.	Purchaser's Specifications	Bidders Offer
12.3	List of important spare parts and accessories with their part numbers and costing.	
12.4	Certificate of calibration and inspection from factory.	



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7. Suction Machine:

Technical Specification of Suction Machine:

S.N	Specification	Bidder's Offer
1	Power Supply: AC 220 V, 50 Hz	F11 (4)
2 -	Suction Pump: Piston Pump	
3 ,	Negative pressure Adjustment Range: Between 0.02 MPa-0.08 MPa	TO PERSON
4	Fuse Pipe: RF Ø 5x 20/2.0A	
5	Pumping Rate: Above 0.02 MPa-0.08 MPa	
6	Reservoir: 2500ml/pc, 2pcs in the suction unit	
7	Shape Size: 380x312x480mm	
8	Ultimate negative pressure Unit: ≥0.09MPa	188
9	Power 150VA	Water State of the
10	Weight Approx. 15 kg	



8. USG Machine (3 Port) with Eco:

5/80	echnical Specification of Colour Doppler Ultr Echo	asound	l Machi	ne with
S.N.	Purchaser's Specifications	Bidder's	Compli	ance Shee
	Ultrasound Machine with Echo	Yes/ No	Ref Does Page No.	Remarks
	Manufacturer		I age 1101	
	Brand			
	Type/Model			
	Country of Origin			
1	Description of Function			
1,1	A hand carried portable Color Doppler Ultrasound Scanner, widely used in diagnosis of abdomen, obstetries, gynecology, cardiology, small parts (breast, thyroid, testis, etc.), musculoskeletal, peripheral vascular, urology, orthopedics and Pediatrics etc.		(4.5)	
2	Operational Requirements			
2.1	It shall operate on AC power supply as well as built in rechargeable battery. The machine is intended to be carried to the field or the patient ward with the inbuilt battery system to examine patients who could not come to USG room.	y ,		
3	System Configuration			
3.1	System shall come with main unit, 3 probes, 1 unit of black and white video thermal printer and Mobile Trolley.		2.	
4	Technical Specifications			
4.1	Main applications: OB/GYN, abdominal, cardiac and small parts.			
4.2	The system shall have latest generation with Minimum grey scale resolution to be 256 with 1024 or more digital processing channels.			
4.3	Imaging Modes: B Mode, B/B Mode, quad B, B/M Mode, M Mode, Color velucity/variance, Power/Directional Power, Pulse Wave Doppler. High Pulse Repeat Frequency, Tissue Harmonic Imaging, Continuous Wave Doppler, Tissue Doppler Imaging etc.			
4.4	The Systems Shall have following Features:		-	
	Trapezoid for B image mode			
8	Steer scanning for Linear probes (B. Color/Power, PW independent)	<u> </u>		
	Spatial Compounding Imaging Tissue Specific Imaging		A Taking	12

-	Extended Field of View Imaging		1	
_	Speckle reduction imaging			-
	Tissue Harmonic Imaging			-
	Zoom for one key image enlarged to full screen			
4.5	The system shall be offered with Physical 8-slide pot control adjustment for TGC curve.			
4.6	System should have function of Split screen to display two live scanning image side by side			
4.7	Shall have facility for image zoom, freeze, text annotation.			1
4.80	The System must have integrated high - resolution Colour LCD/ TFT/Single monitor of 15 Inches or more.			
4.90	System should have a Full sized Alphanumeric Keyboard with Track ball and Backlit Keys.			
4.10	System should support transducer like Linear, Phased array, Convex, without need of any extra hardware and software. System should have at least 2 active ports connectivity.			
4.11	System should have ability to enhance tissue margins and improve contrast resolution by reducing artefacts and improving visualization of texture patterns and needle tip within the image.			
4.12	System should have software for enhanced needle visualization to track the needle clearly at the steep angles during the procedures while maintaining striking image quality of the target strictures and the surrounding anatomy with simple On/Off functionality.		7	
4.13	Cine memory: Atleast 12000 Frames in B mode and 10000 Frames in Color Mode.			
4.14	Should have multiple USB port connectivity.	_		
	Frame rate: not less than 350 fps.		1	
	Display depth: minimum 38cm, or more.		-	-
4.17	Obstetric Analysis: GS (Gestational Sac), CRL (Crown Rump Length), NT (Nuchal Translucency), BPD (Biparietal Diameter), HC (Head Circumference), AC (Abdominal	82		
986	Circumference), FL (Femur Length), F-Kidney(Fetal Kidney Length), HrtC (Heart Circumference), TCD (Cerebellum Diameter), Matrix Kidney Lenght, Cist Magna, GA (Estimate of Gestation age), Fetal weight, Heart Rate Etc.			
4.18	Body markers.		177	
4.19	Time & slope for M-Mode.			
4.20	With tissue optimization function,	-		



4.21	With function to reduce patch noise and other image artefacts without compromising quality of images.		(4)	
4.22	Dynamic range, selectable up to approximately 220 dB.			
4.23	Image storage: System should have be able to store at least 320 GB data/image on main unit.		5-1	
4.24	System shall be DICOM Compatible Imaging System.			
4.25	Focus : Adjustable			
	Facility for future upgradeability.			
	3D/4D Imaging			
	Panaromic Imaging			
4.27	System should comes with USB ports, Ethernet port and should direct connectivity to Laser/Thermal Printer for Printing Images and Reports.			
5	Following Transducer should be available with the Unit:	_		_
5.10	Abdominal, OB/GYN, Pediatric, Vascular & Urology			
5.20	Linear Array Transducer with 5-10 MHz for Small Organ, Vascular, Orthopedics, Musculo-skeletal, Nerve, Pediatric Applications.			3.
5.30	Phased Array Transducer with 2-5 MHz for Cardiac, Abdominal, Applications.			77-
5.40	System should have built-in battery backup at least 90 min. or more backup,			
5.50	The unit should be compact, light weight and portable weight should not be exceed 10kg including rechargeable batteries.			
5.60	It shall come with a Manufacturing Company made trolley on caster to hold the main unit on top with provision of a probe holder, thermal printer and ultra sound gel.			
6	Accessories, spares and consumables			
6.1	Accessories: Black and white video thermal printer with 2 rolls of high density recording paper Ultrasound carrying bag: 01 unit.			
6.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	8		

7	Operating Environment			
7.1	under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	95		t
7.2	Power supply: 220 - 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 2 metre in length.			
8	Standards and Safety Requirements		72.4	
8.1	Must submit ISO 13485 or ISO 9001 AND		<u> </u>	
8.2	CE (93/42 EEC Directives)			
8.3	Must submit USFDA approved product certificate,			1000
8.4	Electrical safety conforms to standards for Electrical Safety IEC 60601-2-37 requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment.			W.
9	User Training	-		
9.1	Must provide user training (including how to use and maintain the equipment).		17.4	
10	Warranty			
1.01	Comprehensive warranty for 1 years after acceptance.			
11	Maintenance Service During Warranty Period	-		
11.1	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.		5	1 2
12	Installation and Commissioning	- 33	(500)	
12.1	The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
13	Documentation	_		
13.1	User (Operating) manual in English.			
13.2	Service (Technical / Maintenance) manual in English.			-
13.3	List of important spare parts and accessories with their part number and costing.			
13.4	Certificate of calibration and inspection from factory.	4	- 1/2	

Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee

9. Infusion Pump:

Technical Specification of Infusion Pump Configuration, performance and technical characteristics

	Configuration, performance and technical characteristics Specification	Bidder's Offer
	Weight no more than 1.6 kg	- 4
STRUCTURE:	Embedded handle for easy carrying	
	LCD Display with high visibility	28
	Quick IV sets installation	
ALAN ATT WATER		
CONSUMABLE	Standard IV seets are compatible with the unit	
	User-defined configuration possible	-
	Operating Modes: Rate mode, Time mode, Body weight mode, Sequential mode	
	Delivery rate 0.1-1500ml/h.	
	VTBI: 0.1-9999ml, step 0.1 ml;	
	Preset Volume(VTBI): 0.1-9999ml	
	KVO Rate: 0.1-5.0ml/h adjustable, step 0.1ml/h	
	Bolus Rate: Automatic/Manual bolus, 0.1-1500ml/h, default 800ml/h	
	Preset bolus volume: 0.1-9999ml	
	Purge Rate: 800ml/h	
	Self-test system	
C. 115	Anti-bolus function. Reduces significantly bolus after occlusion release	
GENERAL	Titration function: Available to change the delivery rate during infusion at minimum	117
FEATURES	increment of 0.1ml/h	-
	The bolus accumulation volume and bolus rate shall be displayed	
	Drug library with up to 200 drug name, add or delete drugs available in user-defined drug list	
44	Have up to 1500 history records	
	Have automatic bolus system, with bolus rate and preset volume adjustable	
1	Remember last infusion configuration when power off	
	Delivery Accuracy: ±5%	
	Dynamic occlusion pressure displayed on screen;	
7/	Multifunction interface: RS232, DC-input, Nurse Call	
100	Data transmission is available with multi-function interface	
	Acoustic and visible alarm	
	3 levels alarm, low, medium, high	W=W-1.5
	Alarm including: occlusion, battery empty, VTBI done, syringe empty, syringe disengaed, KVO	
	finish, system error, reminder, battery low, No battery inserted, syringe near empty, standby	
	time expired, etc.	
ALARM5	3 Occlusion alarm level: 20kPa, 70kPa, 120kPa	
	4 Pressure unit selectable: mmHg, kPa, psi, bar	
100	Air bubble alarm size: 50, 100, 250, 500, 800 μl	
	Alarm sound 1-8 levels adjustable	
	Yellow and red alarm light with different frequency according alarm level	
5 - 000	Screen contrast 1-8 levels adjustable	
DISPLAY	Delivery rate, current infusion, VTBI, IV set brand, real-time pressure, battery capacity, drugs,	
	alarms etc.	
POWER		77
SUPPLY:	AC100-240V, 50/60HZ	
98	Battery type: Rechargeble Lithium battery	S ELMINITE -
BATTERY	Battery operating time: more than 4 hours@25ml/h	
	Battery charging time: less than 6 hours for 100%	
AFTY	Type of shock protection: Class I, Type CF, defibrillation-proof	
PECIFICATION	Water-Proof Grade : IP34	
ERTIFICATION	CE	
	i50 13485	



10. Defibrillator:

21. Defibrillator (AED) Machine

	Defibrillator	with Monitor)
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S.N.		Purchaser's Specifications	Bidders Offe
	Defibrillator (with I	Monitor)	1
	Manufacturer		W.
	Brand		1
	Type / Model	C.	100
h	Country of Origin		1 1 1 2 1
1	Description of Fund	etion	
Li	Defibrillator is required selected quantum of parameters.	uired for reviving the heart functions by providing f electrical shocks with facility for monitoring vital	
2	Operational Requir	rements	
2.1	Used in emergence resuscitation and mo	y & critical care departments to meets various nitoring needs.	
3	System Configurat	ion	
3,1	Defibrillator must be accessories.	Biphasic, light weight and latest model with complete	
4	Technical Specifica	tions	
4.1		in one integrated design: Monitoring, Manual Defib, ternal defibrillator) and Pacer capabilities.	
4.2	System should be battery and external	user friendly, lightweight (less than 6 KG including paddles sets) and easily transportable.	
4.3	System should have	at least 7" TFT colour LCD display (800*600).	
	1-2-3 steps guidance	for fast and safety defibrillation.	
4.4	delivers a lowe	shock is delivered using biphasic waveform which range of energy shocks ranging from 5.20,30,50,70,100,150,170,200,300, 360 joules.	
4.5	Able to perform syn	chronized cardioversion AED and non-invasive pacing	
4.6	Rapid charging time.	saving time for every rescue (200J<=3 see)	0.0
4.7	Must have ECG reco	very time of less than 2.5 sec.	N

S.N.	Purchaser's Specifications	Bidders Offe
4.8	Should have lithium ion battery with capacity of 200 shocks for 360 J or 4.5 hours of pacing or 6 hours of monitoring.	. 594
4.9	Should provide 3/5 ECG monitoring with respiration and optional SpO2 and CO2.	
4.10	Should have ECG waveform viewing time of max. 16 sec.	1
4.11	Should have IP level IP 44.	W,
4.12	Should have dual functions of energy level selection by front panel or by external paddles directly.	7,
4.13	Should have 180 mins of voice recording facility.	g
4.14	Should have external pacing both on demand and fixed mode	
4.15	Should have function of freeze and review at least 120 seconds of ECG waveforms enabling clinicians to easily identify arrhythmias.	
4.16	Should have data storage of up to 100 patient profiles, including 1000 events per patient, 24 hours of ECG waveforms storage and 72 hours of tabular trends.	
4.17	Must have data management software to review, edit and print the data.	4
4.18	Should have easy to output patient data through plug-and play USB disk.	
4.19	Should have colour coded buttons and highly visible patient data to simplify manual defibrillation. Should have visible alarms to keep track of patient conditions.	
4.20	Should have rotator knob or quick keys .	
4.21	Should have lead selection button to give quick access to the optimal ECG waveforms.	19
4.22	Must be used for paediatric and adult defibrillation with adult and paediatric paddles.	17
4.23	Should-have an electrode contact-quality indicator to minimize the risk of ineffective defibrillation.	3
4.24	Should have 3-lead ECG monitoring capability.	
4.25	Operates on AC power supply and internal battery.	
4.26	Should have lithium ion battery back-up facility	
4.27	Should have integral 3 channel thermal printer with paper speed of 6.25mm/sec, 12.5mm/sec, 25mm/sec, 50mm/sec	
4.28	Must comply with AHA & ACLS requirements.	
4.29	Control Panel	

S.N.	Purchaser's Specifications	Bidders Offer
	 Control panel should have a high-resolution 800*480 pixels, at least 7" TFT colour LCD with bright back-light display. 3 waveforms should be displayed. Audio and visual alarms should be provided. Audible indication should be available during AED mode. Must be able to display ECG, HR indicator, battery status, shock indicator. HR limit and shockable rhythms alarms should be provided. 	
4.30	Energy dischargeable buttons should be provided on the main unit and as well as on external paddles.	
4.31	Must have inside discharge facility.	
5	Accessories, spares and consumables	
5.1	3 lead ECG cable x 1 set for ECG monitoring.	emine to
5.2	Printer (built-in) x 1 set	30,
5.3	Power cord x 1 sct	
5.4	Rechargeable Battery x 1 set	
5.5	External Paddles for Adult & Children x-1 set each	- 1 1 T
5.6	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
6	Operating Environment	D#:
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
6.2	Must work on 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs and sockets. The mains cable minimum 3 meter long.	= 0
7	Standards and Safety Requirements	
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	. J. S.
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.	
7,3 . ,	Comply to AHA & ACLS requirements or equivalent	
7.4	Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms.	
8	User Training	2012 to Harry
RI	The Supplier shall conduct user training for this equipment to enable	E ATTO

S.N.	Purchaser's Specifications	Bidders Offer
	operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.	
9	Warranty	of the State
9.1	Comprehensive warranty for 1 years after acceptance.	-
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
12	Documentation	
12.1	User (Operating) Manual in English	
12.2	Service (Technical & Maintenance) manual in English	No. of Concession
12.3	List of important spare parts and accessories with their part numbers and costing	
12.4	Certificate of calibration and inspection from factory.	

11. Intubating Bronchoscope:

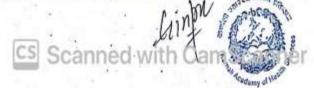
Non-optical fibre flexible video intubation system with 3 different size of scope

Technical Specification:Throughout Bronchoscope

- Easy to transport & Set up flexible video scope with monitor for Intubation and Bronchoscopy.
- It should be facilitate with video output should be supplied with monitor.
- Monitor should have video recording and capability to take still images and should have storage of minimum 8GB.
- Monitor should have at least 4 hours battery backup it can be mount on IV pole.
 Maximum start up time should not be more than 10sec.
- Minimum length should be 600mm.
- It should be direct both the way 130 degree with thumb control lever with pediatric scope, 150 degree up and 130 degree down with Adult scope and 140 degree up and 110 degree down with large scope
- It should have ET Tube parking slot.
- Scope should have outer diameter of 3.6 -3.9 mm, working channel more than 1.0 mm for pediatric scope, outer diameter of 4.8 5.2 mm, working channel more than 2.0mm for adult scope, outer diameter of 5.6 5.9 mm, working channel of 2.7 mm for large scope.
- It should have additional working channel and can be used for oxygen flushing.
- It should be integrated with camera chip and LED light source.
- System should be supplied with 10 no's of sterile scopes.
- Should be USFDA & European CE approved confirming to international standards of safety.

12. Syringe Pump:

	Configuration, performance and technical characteristics	Bidder's Offer
	Weight no more than 1.95 kg	
	Embedded handle for easy carrying	
	Front loading design, allow easy installation of the syringe	
STRUCTURE:	Extension line clamp	
	Large alarm light with visibility at long distance	1
	LCD Display with high visibility	- 1
	Ability to use syringes of any manufacturers	
CONSUMABLE	Supports for syringes size at 5, 10, 20, 30, 50/60 ml	
CONSOMIABLE	Automatic recognition of syringe size	
	Operating Modes: Rate mode, Time mode, Body weight mode	
	Delivery rate 0.1-1500ml/h, minimum step 0.1 ml/h (depending on syringe size)	
	Preset Volume(VTBI): 0.1-9999ml, minimum step 0.1ml	
	KVO Rate: 0.1-5.0ml/h adjustable, step 0.1ml/h	1 1 2
4	Bolus Rate:	
	Manual bolus: 0.1-1500ml/h (depending on syringe size)	
	Automatic bolus: 0.1-1500ml/h (depending on syringe size)	
	Have automatic bolus function, with bolus rate and preset volume adjustable	2500
	Preset bolus volume: 0.1-9999ml	-
	Purge Rate: Sml syringe: 150ml/h; 10ml syringe: 300ml/h; 20ml syringe: 600ml/h; 30m/50ml/60ml syringe:	
	800ml/h	17 2 4
in the second	Self-test system	
GENERAL	Anti-bolus function. Reduces significantly bolus after occlusion release	
EATURES	Fast-start function against, the friction force of syringes	
	Titration function: Available to change the delivery rate during infusion at minimum increment of 0.1ml/h	167.1
	The bolus accumulation volume and bolus rate shall be displayed	100
	Orug library with up to 200 drug name, add or delete drugs available in user-defined drug list	
	Have up to 1500 history records	
	History records data could be transmitted to PC	
	Remember last infusion configuration when power off	
	Delivery Accuracy: ±2%	
100	Mechanical Accuracy: ±1%	
	Pressure limitation level displayed on screen; Multifunction interface: RS232, DC-input, Nurse Call	
	Multifunction interface: RS232, DC-input, Norse Call Data transmission is available with multi-function interface	
200		
- 1	Acoustic and visible alarm	-
	3 levels alarm, low, medium, high Alarm including: occlusion, battery empty, VTBI done, syringe empty, syringe disengaed, KVO finish, system	100
	Alarm including: occlusion, battery empty. Vibi bone, syringe empty, syringe disengates, and internal error, reminder, battery low, No battery inserted, syringe near empty, standby time expired, etc.	1999
ALARMS	error, reminder, battery low, no battery inserted, syringe near empty, standay time expered, etc.	-
	3 Occlusion alarm level: Low 40kPa, Medium 70kPa, High 120kPa	
	4 Pressure unit selectable: mmHg, kPa, psi, bar	
- 4	Alarm sound 1-8 levels adjustable	-
	Yellow and red alarm light with different frequency according alarm level	
	Screen contrast 1-8 levels adjustable	
DISPLAY	Delivery rate, current infusion, VTBI, syringe size, syringe brand, real-time pressure, battery capacity, drug	
	name, alarms etc.	-
OWER	AC100-240V, 50/60HZ	-
	Battery type: Rechargeble Lithium battery	
BATTERY	Battery operating time: more than 6 hours@5ml/h	-
402277	Battery charging time: less than 5 hours for 100% charging	-
SAFTY	Type of shock protection : Class I, Type CF, defibrillation-proof	-
PECIFICATION	Water-Proof Grade : IP34	-
	CE CE	2 1
CERTIFICATION:	150 13485	1



13. Oxygen Cylinder (Large Size):

As per standard.

14. PPE (Tyvek):

As per standard. PPE of Tyvek type.

15. N95 Mask:

As per standard.

16. Overhead Panal:

The overhead panal used for patients with following accessories:
Power Socket
Peri light
Space for monitor
Oxygen & Suction Port

17. Autoclave 50 Ltrs (Electric):

Technical Specification Autoclave (50L)

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	Autoclave			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
1.1	Autoclaves are required for sterilizing an object in high temperature and high pressure steam.			S 11-52-1-1-1-1-1
2	Operational Requirements			
2.1	Vertical autoclave, universal basic version for microbiological standard laboratory to sterilize liquids, instruments, glassware, plastic articles or general infectious waste.			
3	System Configuration			
3.1	Autoclave with complete accessories			100
4	Technical Specifications			6 M2
4.1	Triple walled construction; chamber, door, doorframe, bolts made of corrosion-resistant material and able to prevent stress cracking.	t- 1	1	
4.2	Compact, portable easily moveable on non-rusting, non-marking castors from one place to another place. The wheels/castors shall have brakes.			
4.3	Sterilizing For water, culture media, reagents and other fluids. After completion and cooling to a selected temp., air is expelled automatically through the exhaust valve. Sterilizing temp.: 115°C to 135°C Timer: 1 to 300 min. Exhaust temp.: 0°C to 45°C	1		
4.4	Instrument Sterilizing For flasks, beakers, test tubes, other lab instruments. When completed, the exhaust valve opens and the temp, drops to 100°C. Thus, cool down period can be shortened. Suitable for equipment that can withstand sharp drops in pressure and for sterilizing waste. Sterilizing temp.: 115°C to 135°C Timer: 1 to 300 min.			
4.5	Sterilizing/Keep Warm After sterilizing culture media, reagents and other fiquids, and cooling down naturally to a selected temp., air is expelled automatically from the exhaust	-00300 Annual Park		

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
N.	valve, High temp, prevents	Once	II any	databates manage
	solidifying.		1.000	AND THE RESERVE
	Sterilizing temp.: 115°C to 135°C		1	
	Timer: 1 to 300 min.			
	Exhaust temp.: 0°C to 45°C			
	Incubation temp.: 45°C to 60°C			Same
4.6	Melting/Keep Warm			
	To melt or keep culture media at			
	a fixed temp. (This function is not			A SAID
	for sterilizing but prevents			
	solidifying).			1000
	Melting temp.; 60°C to 114°C			
	Timer: 0 to 300 min., 72 hrs.			
4.7	Incubation temp.: 45°C to 60°C Chamber volume: ≥50 litres.		-	
4.8				
4.9	Exhaust tank: 2-liter polyethylene tank Chamber material: SUS304 (Austenitic stainless			
7.2	steel)		0	
4.10	Keep warm timer: 72 Hrs, Fixed		-	
4.11	Program Timer: 1 week (Designation: Year, month,			
7112	day, hour and minute)			
4.12	Fast safety lid lock.			
4.13	Lid lock by a circumferential, durably heat- and			
277700	pressure-resistant seal.			
4.14	Control lock-out switch that prevents starting a cycle		-	
	if the door is not locked safely.			
4.15	Control that prevents opening the door until chamber	-		
ADDAM'S	is depressurized.			
4.16	Temperature-dependent door-locking system			100
	according to international standard.			
4.17	Maximum operating pressure: 0.240MP bar.		100	- 3
	Maximum operating temperature: 135 °C			W.
4.18	Sterilisation timer: 1-300 minutes,			
4.19	Instrument sterilization timer: up to 72 hours.		1500	
4.20	Melting timer: 1–300 minutes.			700
4.21	Exhaust valve open temperature setting			
4.22	Microcomputer control system.			
4.23	The control panel to be mounted so that the			774
	components sensitive to steam and heat are protected.	-		THE REAL PROPERTY.
4.24	display showing:			
	temperature		0 - 0	
	steam pressure			
	sterilization time			
	stage of cycle alarm information			
4.25	Lid interlock.			
4.26	Alarm: audible, with display on dysfunction.		-	
4.27	All information on alarm to be in full writing and not			
25/10/1	based on a code.			
4.28	Safety devices: Pressure safety valve, over-			
	temperature limiter, anti-scorch limiter, door			
4.29	interlock, over-pressure limiter, current fuse Pressure vessel type: Small-scale pressure vessel			(c) 2(92)



.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue datasheet/ manual
1.30	A manual control that can run a complete cycle manually in case of system failure.	-		Mark Park
5	Accessories, spares and consumables			
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer			
	(including items not specified above).			
6	Operating Environment	-		
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Power supply, Climate, temperature and relative humidity.			
6.2	Power supply: 220-240V/50 Hz AC Single phase or 380-400V AC 50 Hz Three phase fitted with appropriate plugs to meet purchaser's country requirements. The power cable must be minimum 3 metres long	- X		,
7	Standards and Safety Requirements			-
7.1	Must submit ISO 9001 and CE			
8	User Training		7555	
8.1	Must provide user training (including how to use and maintain the equipment).		-	
9	Warranty			
9.1	Comprehensive warranty for 1 years.			
10	Maintenance Service during Warranty Period	-		
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.			J-11
11	Installation and Commissioning			12-2
11.1				14
12	Documentation	1		The second second
12.1	User (Operating) manual in English		11	1 45
12.2	Service (Technical / Maintenance) manual in English			
12.3				· · · · · · · · · · · · · · · · · · ·
12.4				



18. Micro Centrifuge:

Technical Specification of Micro Centrifuge

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet				
	Micro Centrifuge	Yes/No	Page No. in Catalogue	Remarks		
	Manufacturer			10.7		
	Brand			CONTRACT OF		
	Type / Model	8	-	- 17/2		
	Country of Origin					
1	Description of Function		Ŷ			
1.1	Micro centrifuge is a piece of equipment, generally driven by a motor that puts an object in rotation around a fixed axis, applying force perpendicular to the axis. The centrifuge works using the sedimentation principle. Where the centripetal acceleration is used to separate substances of greater and less density.					
2	Operational Requirements					
2.1	Lightweight and Compact in size.		il			
3	System Configuration					
3.1	Micro centrifuge with digital display. The centrifuge body is made of high quality steel, stainless steel chamber, safe and reliable.					
4	Technical Specifications					
4.1	Must have Max Speed 16,000 RPM			17		
4.2	RCF 17940 x g					
4.3	Must be maintenance free brushless motor.					
4.4	Must have Acc / Dec of at least 10 types.					
4.5	LCD display for RCF, Time and Speed.			Tester -		
4.6	Micro controller based program					
4.7	Hold at least 12 tubes of 1.5 / 2.0 ml.					
4.8	Timer up to 0 ~ 99min 59sec			Higgs Spirit		
4.9	Electric lid lock, super speed, imbalance protection.					
5.0	Noise level shall be less than 55dB			C -03-68		
5	Accessories, spares and consumables	-0				
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.					
6	Operating Environment					
6.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.					



6.2	Power supply: 220 - 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	- 1		
7	Standards and Safety Requirements			Non-
7.1	Must submit ISO13485;2003/ AC:2007 AND	-		100
7.2	CE approved product certificate.		S. GERMAN	
8	User Training		Tell -	
8.1	Must provide user training (including how to use and maintain the equipment).		210-11	
9	Warranty			1
9.1	Comprehensive warranty for 1 years after acceptance.			77
10	Maintenance Service During Warranty Period			1
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			ogs:
11	Installation and Commissioning	14		
11.1	Supplier must accomplish proper commissioning of the equipment on site.	of.		
12	Documentation			
12.1	User (Operation) manual in English		F 1	
12.2	Service (Technical / Maintenance) manual in English		2 1	
12.3	List of important spare parts and accessories with their part numbers and costing.	4-1		
12.4	Certificate of calibration and inspection from factory.			

19. Micro Pipette Single & Multi Channel (All Size):

Technical Specifications of Micropipette Single and multi channel

S. No.	Specification	Required Quantity	Bidder's Offer	
	Manufacturer:			
	Country of Origin:			
	Model:			
	Brand:			
1	Description of Function			
100	Laboratory Micro pipette to use for lab sampling preparation.			
2	Operational Requirements			
	Different size autoclavable micropipette			
3	System Configuration			
	Single channel micropipette			
	8 channel micropette			
4	Technical Specification			
4.1	Single Channel Micro Pipette			
	Fully autoclavable	- 1-		
	Ergonomic design provides excellent operating experience Easy-to-read volume display Easy calibration and maintenance provides excellent operating experience Large display window allows for easy volume identification			
	Easy calibration and maintenance			
4.1.1	Micropipette Single Channel Capacity: 0.1-2.5 μl Increment: 0.5 μl Inaccuracy%: At 2.5 μl: 2.50, At 1.3 3.00, At 0.25 μl: 12 Variable volumes, fully autoclavable,	5 25 µl :		
4.1.2	The second secon	d:		
4.1.3	Micropipette Single Channel Capacity: 2-20 μl Increment: 0.5μl Inaccuracy%: At 20μl-0.90, At 10 μ 1.20, At 2 μl- 3.00 Variable volumes,	2004		

		fully autoclavable,	-	6
4.1.4	Micropipette	Single Channel Capacity: 10-100 µl Increment: 0.1µl Inaccuracy: At 100 µl ±0.80, At 50 µl ±0.50, At 10 µl ±0.30 Variable volumes, fully autoclavable.	5	
4.1.5	Micropipette	Single Channel Capacity: 20-200 µl Increment: 0.1µl Inaccuracy%: At 200 µl- 0.60, At 100 µl- 0.80, At 20 µl-3.00 Variable volumes, fully autoclayable.	5	
4.1.6	Micropipette	Single Channel Capacity: 100-1000 μl Increment: 5.0μl Inaccuracy%: At 1000 μl- 0.60, At 500 μl- 0.70, At 100 μl- 2.00 Variable volumes, fully autoclayable,	5	7
4.2	pipetting Individu allowing Compou	te cli plates ng head rotates for effortless convenience al piston and tip cone assemblies easy repair and maintenance nd material-made tip cone secures high sealing		
4.2.1	Micropipette	Multi Channel (8 channel) Capacity: 0.5-10 μl Increment: 0.1 μl Inaccuracy%: At 10 μl- 1.50, At 5 μl- 2.50, At 1 μl- 4.00 Variable volumes, fully autoclavable,	3	740
4.2.2	Micropipette	Multi Channel (8 channel) Capacity: 5-50 μl Increment: 0.5μl Inaccuracy%: At 50 μl- 1.00, At 25 μl- 1.50, At 5 μl- 3.00 Variable volumes, fully autoclavable,	3	



1	 Capacity: 50-300 μl Channel: 8 Increment: 0.5 μl Inaccuracy: At 300 μl ±2.10, At 150 μl ±1.5, At 50 μl ±0.75 Variable volumes, fully autoclavable, 		
5	Accessories, spares and consumables		
5.1	All standard accessories to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).		469
6	Operating Environment		
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Power supply, Climate, temperature and relative humidity.	6	
7	Standards and Safety Requirements		
7.1	Must submit ISO and CE certificates		
8	User Training		
8.1	Must provide user training (including how to use and maintain the equipment).		
9	Warranty		
9.1	Comprehensive warranty for 1 years.		
10	Maintenance Service during Warranty Period		
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.		17 346
11	Installation and Commissioning		O TORIS
11.1	The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.		
12	Documentation		
12.1	User (Operating) manual in English		
12.2	Service (Technical / Maintenance) manual in English		
12.3	Certificate of calibration and inspection from factory.		-



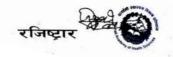
KARNALI ACADEMY OF HEALTH SCIENCES

अनूसूचि "क"

Teaching Hospital, Jumla PROCUREMENT OF MATERIALS/EQUIPMENTS

F/Y 076/077

S.N	Name Of Items	Unit	Quantity	Unit Price	Unit Price in Words	Total Amount
1	Real Time PCR Machine	Set	1			
2	PCR Reagent Kit (Corona Testing)	Kit Set	1			
3	Video Laryngoscope	Set	1			
4	Ventilator (Adjustable)	Set	1			
5	Monitor - 7 Para	Set	1			
6	Monitor- 5 Para	Set	1			
7	Suction Machine	Pcs	1			
8	USG Machine (3 Port) with Eco	Set	1			
9	Infusion Pump	PCs	1			
10	Defibrillator	Pcs	1			
11	Intubating Bronchoscope	Pcs	1			
12	Syringe Pump	Pcs	1			
13	Oxygen Cylinder (Large Size)	Pcs	1			
14	PPE (Tyvek)	Pcs	1			
15	N 95 Mask	Pcs	1			
16	Overhead Panel	Set	1			
17	Autoclave 50 Ltrs (Electric)	Pcs	1			



S.N	Name Of Items	Unit	Quantity	Unit Price	Unit Price in Words	Total Amount
18	Micro Centrifuge	Pcs	1			
19	Micro Pipette Single & Multi					
	Channel (All Size)	Set Each	1			
Tota	Total Amount Without VAT					
VAT@13%						
Tota	l Amount With VAT					

Name of Firm:

Name of Propritor:

Firm Seal:

Signature:

Date:

(नोट : उपरोक्त सामग्रीहरुको प्रतिस्पर्धा प्रत्येक सामग्रीहरुको छटा छुटै हुने भएको हुदा प्रस्तावदाताले एक वा एक भन्दा वढी सामग्रीहरुमा विड गर्न सक्नेछन् ।)

