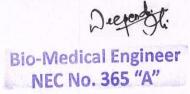
Specification of Semf-Automated Biochemistry Analyzer

	Purchaser's Specifications	S & S	oou		
S.N.	(Health Directorate, Dhankuta), F/Y-081/082	Bidder's Complia nce (Yes	Reference Page	Remarks	
	Manufacturer				
	Brand		WATE OF		
	Type / Model				
	Country of Origin		11		
1	Description of Function				Ī
1.1	The Semi-automated Bio-chemistry Analyzer measures biochemical indexes by analyzing blood and other body fluid, then combines with other clinical information, to help diagnose disease, evaluate organs function.				
2	Operational Requirements				
2.1	Semi automated chemistry analyzer with built in software for the calculation and curve plotting. It must accept all types of curve fits like log-linear, exponential, point to point.				
2.2	Memory for ≥150 open user defined chemistries minimum				
3	System Configuration				
3.1	Semi automated chemistry analyser with built in data processor with at least 60 parameters.				
4	Technical Specifications				
	Measurement Principle: Colorimetry (Rate/End point)				
4.1	Light Source : Halogen Lamp or LED				
4.3	Optic: 6 Wavelength Range: Automatic selection by at least 6 position filter wheel ranging 340 - 630 nm.				
4.4	Photometric Range: 0 to 2.5 Absorbance.,				
4.5	Calculation Modes: Absorbance/concentration End point. Fixed time. Kinetic mode,Factor,Single-or Multi- standard				
4.6	Option for cuvette mode and aspiration mode.	11 100			
4.7	Aspiration system: Programmable sipping volume from 100- 1000 μl. Measuring volume not more than 50μl				
4.8	Programme: High/Low flags.				
4.9	Flow Cell- 10 mm path length				



entry England

A 5-34	
Temperature control by Peltier element	
Built in thermal printer.	
Accessories, spares and consumables	
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).	
Operating Environment	
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.	
Power supply: 220 - 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
Standards and Safety Requirements	
Must submit ISO 9001 and/ or ISO 13485:2003/AC:2007	
CE or USFDA approved product certificate.	
User Training	
Must provide user training (including how to use and maintain the equipment)	
Warranty	
Comprehensive warranty for 2 year after installation	
Maintenance Service During Warranty Period	
During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required	
	Built in thermal printer. Accessories, spares and consumables 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). Operating Environment 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. Power supply: 220 - 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length. Standards and Safety Requirements Must submit ISO 9001 and/ or ISO 13485:2003/AC:2007 CE or USFDA approved product certificate. User Training Must provide user training (including how to use and maintain the equipment) Warranty Comprehensive warranty for 2 year after installation Maintenance Service During Warranty Period During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever

Bio-Medical Engineer
FC No. 365 "A"

Culmy Page Sign

TECHINICAL SPECIFICATION FOR EBA1C analyzer

	Purchaser's Specifications 1/9 081/8		Bidder's compliance sheet			
S.N.	Portable-HBA1C analyzer	yes/No	Page no. in catlog	Remark		
	Manufacturer					
	Brand					
	Type / Model					
	Country of Origin					
1	Description of Function					
	An HbA1c analyzer machine measures the amount of glycated hemoglobin					
	in a blood sample to assess long-term blood sugar control.					
	A light beam with intensity passes through the test cuvette with Ag-Ab reactions and fall on the photodetector placed at 180/135 deg. In turbidimetric assays reduction in the intensity of transmitted light(I-t)measured at 180 deg corresponds to the concentration of test analyte. In nephelometric					
	assays,increase in the amount of scattered light (I-s) measured at 135 deg					
	corrosponds to the concentration of test analyte					
	System Configuration					
	Portable HBA1C Analyser with complete accessories for different parameters: HbAlc, D-dimer, CRP, RF, AS0, MA, IgE, Ferritin, C3 & C4.					
4	Technical Specifications					
A	Principle-Turbidimetry/Nephelometry					
	Optical System- Laser LED (650nm) and Silicon detectors at 180/135 deg					
С	Measuring Chamber: • Temperature 37 C +/- 1 C •Should have Auto mixing feature					
D	Should have electronic pipette for reagent auto start reading	di la la				
F	Should have smart card/RFID card for Lot specific assay calibration with applications					
	QC- 3 level with Levey Jennings plot should be available	+				
	Display- Atleast 4" Color touch screen, online reaction curve	-				
	Should have inbuilt thermal printer					
	Data transfer-USB/R232 cable					
	Should have data storage for atleast 400 results					
k	Should be supplied with Li-ion battery with appropriate battery backup facility					
	Dimensions(approx.)-296 (L) x 232 (W) x 117 (H)					
M	Weight(approx.)-3 kgs					
0	Power supply-100-240V,AC 50/60 Hz,DC Power adaptor of suitable					
	Accessories spares and consumables					
3	Accessories, spares and consumables Accessories:					
	• Incubator,Power cable adapter,Electronic pipette,manual pipette(5-50ul),manual pipette(100-1000ul),dust cover,USB/R232 cable- 1 set each, paper roll-10 pcs			×.		

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Curry Page 18

	Purchaser's Specifications(f/y-081/82)	Bidde	er's compliance	e sheet
S.N.	Portable-HBA1C analyzer	yes/No	Page no. in catlog	Remarks
	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).			
	Operating Environment			
A	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country.			
7	Standards and Safety Requirements			
Α	Must submit ISO 13485 for medical device AND			
	CE or USFDA approved product certificate			
8	User Training			
	Must provide user training (including how to use and maintain the equipment).			
9	Warranty			
	Comprehensive Warranty for 2 year.			
10	Maintenance Service During Warranty Period			
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	Documentation			
	User (Operating) manual in English during the time of installation.			

Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Pagenumber 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

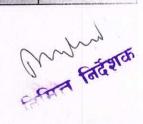
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Cartain Paterior

Technical Specification for: Digital Centrifuge

	Purchaser's Specifications			ance Sheet
S.N.	(Health Directorate, Dhankuta), F/Y-081/082	Yes/No	Page No. in	Remarks
	Item Name: Digital Centrifuge(8tubes or more)	OR SA		
	Manufacturer			
	Brand	S P P		
	Type / Model	The state of the s		
	Country of Origin	10		
1	Description of Function	141		
	Centrifuges are required in the Laboratory to separate various components of Blood, Urine and any other liquid sample for analysis	नकुटा, त्रेपाँ		
2	Operational Requirements	National State		
	A Table top version Centrifuge Machine with compact construction for vibration free performance	raugi Aest	g - 120 - 224 - 1	
3	System Configuration		11/2/17/4	- (197 <u>-)</u> (1971 - 1974 - 197
	Centrifuge complete with basic rotors and suitable tube adaptors.			
4	Technical Specifications		155 165	
Α	Tube Capacity: 8 tubes or more with 15 ml capacity			
В	Automatic locking system of the lid		77	
С	Speed Range: Approx.3500- 5,000 RPM			
E	Imbalance detection system with automatic functioning stop to avoid accidents			
F	Digital adjustment of acceleration and deceleration levels			
5	Accessories, spares and consumables			
Α	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).			
В	Must supply reduction adaptors for small tube sizes.			
6	Operating Environment	Unidate Charles		
Α	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.			
В	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.			
7	Standards and Safety Requirements			
A	Must submit ISO 9001 or ISO 13485 for Medical Devices			00
В	CE or FDA approved product certificate.			
8	User/Technician Training		Control of the	
	Must provide user/technician training (including how to use and maintain the equipment).			
9	Warranty (Written Document)			
Α	Comprehensive warranty for 2 years from acceptance.			
В	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required. PM must be performed bi-			
	annually and broken spares replaced FOC within the warranty period.			
11	Installation and Commissioning		7	musical Edition





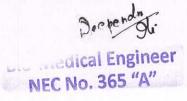
	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
12	Documentation	THE PERSON		
Α	User (Operating) manual in English			
B	Service (Technical / Maintenance) manual in English		MARKET U.	

Bio-Medicar of Men NEC No. 365 "A"

FATHER FATERIES

TECHINICAL SPECIFICATION FOR PRINT ANALYZER

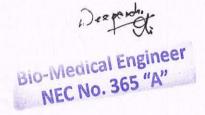
S.N.	Purchaser's Specifications (Health Directorate, Dhankuta), F/Y-081/0827,	Bidder's compliance sheet			
	URINE ANALYZER	yes/No	Page no. in catlog	Remarks	
	Manufacturer			1000	
_	Brand	Jan Hillian Red Ay			
	Type / Model				
	Country of Origin				
	Description of Function				
	Urine strip analyser quickly analyses urine				
	chemistry for diagnosis and screening.				
2	Operational Requirements				
	Must have flexible user programmable option	The residence			
	available to use parameter strip as and when			H	
_	required.				
	System Configuration				
	Urine Strip Analyser with complete accessories.		3 4 17 7	Qui.	
	Wavelength: at least 3 with CCD Detector(Photosensitive Diode)				
	Technical Specifications				
A	Measurement Principle: Reflectance Photometry or				
	Photoelectric calorimetry or equivalent technology.				
	Shelf life for the Urine Strips must be more than 18 months				
1	Measured Parameters:				
[Urobilinogen			11.2	
	Bilirubin				
1	Ketones				
[☐ Creatinine				
[Hemoglobin/blood,				
	Protein				
	Microalbumin				
1	Nitrite				
	Leukocytes				
	Glucose				
	Specific gravity				
	pH and				
	Ascorbic acid		- 11 / 3 / 1		
рТ	hroughput (Speed): Atleast 120				
	amples/hour				
	hould flags for abnormal results.				
P	eporting: Must have facility of reporting through				
Fir	abuilt thermal printer				
IN	femory: At least 5000 tests results stored				
Ga	utomatically.				
	isplay:				
	LCD module to show data on screen to				
	now test results and operation status of				
	/stem				
_	rinter: Built in printer.				
	IS/HIS Compactibility for better patient care		h		
- 1	ccessories, spares and consumables				



Owner Butterion

S.N.	Purchaser's Specifications (Health Directorate, Dhankuta), F/Y-081/08		Bidder's compliance sheet			
	URINE ANALYZER	yes/No	Page no. in catlog	Remarks		
	Accessories: □ Urine strip (13-Parameter) start-up kit - 100 strips and Calibration Strip should be provided free of cost.					
	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).					
_	Operating Environment					
Α	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country.					
	Standards and Safety Requirements					
A	Must submit ISO 13485 for medical device AND					
В	CE or USFDA approved product certificate					
	User Training					
	Must provide user training (including how to use and maintain the equipment).					
	Warranty					
	Comprehensive Warranty for 2 year.			1 - 1 - 1		
101	Maintenance Service During Warranty Period					
C	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.					
	Documentation					
	User (Operating) manual in English during the time of installation.					

Bidder must completely fill the Technical Specification Form (TSF).
Only Yes/no/all complies should not be
written. Pagenumber 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



Callery Englisher

Technical Specification of Binocular Microscope

S.N.	Hospital Proposed Specification(Health Directorate Dhankuta)/2081/82	Technical Compliance sheet
	Binocular Microscope	
	Manufacturer :	
	Brand :	
	Model:	
	Country of Origin :	
1	Description of Function A Microscope fitted with double eyepieces for vision with both eyes is a Binocular Microscope. Compound microscope consists of two or more than two magnifying lenses. One can view individual cells, even living ones. It shall have high magnification.	
2	Operational Requirements System complete with illumination system required.	
3	System Configuration	
	Binocular microscope (LED) with complete accessories.	
4	Technical Specification	
	Type Upright compound microscope with Koehler Illumination	
	Light source should be 0.5W LED light with minimum 20000 hours life The system must have a build in transmitted illumination system.	
	Optical System: Infinity optical system All optical parts including objectives, eye pieces and prisms must have anti-reflective coating which also gives anti-fungal property.	
	Eyepiece • Paired, high quality, have a minimum field number of 20. Diopter adjustment must be present on on/both eye pieces or on the eye piece tube.	
	Nose Piece: • Fixed quadruple nose-piece for 4 objectives	



PARKY FATEFICE

	A A TO
	Objectives With High quality objectives of the Plan-Achromatic dess: Plan-Achromatic 4x/0.10 Plan-Achromatic 10x/0.25 plan- Achromatic 40x/0.65 Plan-Achromatic 100x/1.25 Oil, WD=0.13mm Making for the Objectives: Each objective must be engraved with the following information: Name of the manufacturer Magnification and numerical aperture, for example, 10x/0.25
	100x objective must be engraved with the word 'Oil"
	Condenser • Abbe-type condenser, numerical aperture (N.A) 1.25 focusable with rack and pinion arrangement incorporating a spherical lens and an iris-diaphragm
	Viewing Tube Viewing with 30° angle and field of view min 20mm With Interpupillary Distance continuously variable from 48 to 75 mm by asymmetric folding of the binocular part
	 Aluminum die cast stable body with coaxial focus adjustment. Mechanical reckless stage with Long-lived stage surface With well-readable vernier and robust controls Wire movement mechanical fixed stage. Travelling range: 76mmx30mmx, Specimen holder, specimen position scale. Co-axial course and find focusing knobs capable of smooth fine focusing movement over the full range of coarse travel. Built in security slot and focus lock should be provided. Must have ergonomic grip for easy carrying
5.	Accessories, spares and consumables
	All standard accessories, consumables if any 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 The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include PowerSupply, Climate, Temperature, Humidity, etc.

WEC No. 365 "A"

PARAM PRICIPIE

1.0	
	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugto meet purchaser's country requirements. The power cable must be minimum3 meters long.
7	Standard and Safety Requirements
	Must submit ISO13485:2016/AC:2007 for Medical Devices AND
	CE (98/79/EC directives) or USFDA approved certificate.
8	User Training
	The Supplier shall conduct onsite 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
	Comprehensive warranty for 2 years after installation, from Manufacturer.
10	Maintenance Service During Warranty Period
	During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance wheneverrequired.
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
12.2	User (Operating) manual in English
12.3	Service (Technical/Maintenance) manual in English

Bio-iviedical Engineer
NEC No. 365 "A"

CHANN FATERION

Technical Specification for H

S.N.	Purchaser's Specifications Bidder Compliance Sheet				
	Hot Air Oven (Small)	Yes/ No	Refer ence Page No	Remarks	
	Manufacturer				
	Brand				
	Type/Model				
	Country of Origin		time Title		
1	Description of Function				
1.1	Hot Air Oven is required for heating a sample under controlled conditions.				
2	Operational Requirements				
2.1	Hot air oven for heating sample under controlled condition				
3	System Configuration				
3.1	Hot Air Oven (Small) with complete accessories				
4	Technical Specifications				
4.1	Must be made of double walled chamber. Inner wall should be made of high grade steel and outer made of mild steel duly painted with powder coated paint.				
4.2	The gap between the two wall will be filled by high grade glass wool of 75mm to avoid thermal loss				
4.3	Must provide with three heating elements on three sides of the equipment for uniform temperature on all shelves.				
4.4	Must have Microprocessor Based PID type digital temperature controller cum indicator.				
4.5	Must have a minimum chamber size of 300mm (L) x 300mm (B) x 300mm (H)				
4.6	Shall have provision of air ventilations.				
4.8	Temperature Range: +5 °C to 250 °C.				
5	Accessories, spares and consumables				
5.1	Accessories:				
5.2	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.				
6	Operating Environment	7			
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 fitted with appropriate plugs. The power cable must be at least 3 metres long.				
7	Standards and Safety Requirements				



Constitute Cafe also

7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND		
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.		
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 after acceptance.		
10	Maintenance Service During Warranty Period		
10.1	During the warranty period supplier must ensure 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.		
	,		

Bio-Medical Pagineer

Contract Cafe was

Refrigerator for Realers

5.N.	Purchaser's Specifications,F/Y-081/82	Bid	lder's Com	pliance
	Refrigerator for Reagent	Yes/N o	Ref Doc Page No.	Re ma rks
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
1	Description of Function			
1.1	Laboratory Refrigerator is used to store samples, medicines, blood bags, reagents etc. under controlled temperature conditions.			
2	Operational Requirements			
2.1	Refrigeration system: CFC-free refrigerant cooling system and the refrigerant must be R134a or better type.			
2.2	Capacity of storage: Atleast 100 litres.			
3	System Configuration			
3.1	The system consists of: Refrigerator with cap atleast. 1500 litres.			
4	Technical Specifications			
4.1	Microprocessor based Temperature Controller with digital LED display.			
4.2	Monitor for temperature with audible & visual alarm for high/low temperature, thermostat fault, Door Ajar & power failure.			
4.3	Temperature range shall be 2-8°C.			
4.4	Temperature accuracy shall be not more than 0.1°C.			
4.6	Refrigeration type must be forced air refrigeration system.			
4.7	System must have high efficiency air cooled condenser.		*	
4.8	System must have adjustable shelves which is made up of stainless steel.			
4.9	System must have at least 3 number of adjustable shelves.			
4.10	System shall have LED lamp for internal glowing and it must be lockable with door keys.			
4.11	System shall consume low energy			
5	Accessories, spares and consumables			

Bio-Medical Engineer

Carrie California

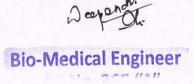
5.4		
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tooks and cleaning and lubrication materials, to be included in their offer (including items not specified above).) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
6	Operating Environment	
6.1		
0.1	The product 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	Power input to be 220-240VAC, 50Hz fitted with appropriate plug. The power cable must be minimum 3 metres long.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 9001 or ISO13485:2003/AC:2007 / CE/ USFDA certificate	
8	User Training	
8.1	Not applicable.	
9	Warranty	
9.1	Comprehensive warranty for 2 year after acceptance.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	TIE CONTRACTOR
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.	

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Children Calcula

TECHINICAL SPECIFICATION FOR WATER BATH

S.N.	Purchaser's Specifications (Health Directorate, Dhankuta), F/Y-081/082	Bidder's compliance s		heet	
	WATER BATH	yes/No	Page no. in catlog	Remark	
× 11	Manufacturer		tutiog	-	
	Brand				
	Type / Model				
	Country of Origin		King Time		
1	Description of Function				
	Water bath maintains a constant pre-set temperature				
	for treating samples.				
2	Operational Requirements				
	General laboratory purpose water bath is required			Harris 1	
3	System Configuration				
	Water Bath, complete unit with all standard accessories.				
	Technical Specifications				
_	Single chamber water bath				
	Material: Inner and outer jacket made up of stainless steel.			1	
C	Inner chamber working capacity not less than 20 L.				
	Microprocessor controlled programmable, digital				
	display for temperature etc.			1 11	
	Temperature Range: Approx.10°C to 70°C.				
	Accuracy: +/-1°C.				
F	Thermostatic function/control				
5	Accessories, spares and consumables				
	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				
	n their offer (including items not specified				
	above).				
	Operating Environment				
A	The product offered shall be designed to be stored and to operate normally				
- u	inder the conditions of the purchaser's country.				
7 5	Standards and Safety Requirements				
	Must submit ISO 13485 AND CE product certificate				
	Jser Training			- No.	
	Must provide user training (including how to use and				
	naintain the equipment).				
	Varranty				
	Comprehensive Warranty for 2 year.				
10 N	Maintenance Service During Warranty Period				
D	uring the warranty period supplier must ensure corrective/breakdown				
	naintenance whenever required.				
	ocumentation				
	Iser (Operating) manual in English during				
10	he time of installation.				



White Paterio

S.N.	Purchaser's Specifications (Health Directorate, Dhankuta), F/Y-081/022		Bidder's compliance sheet		
	WATER BATH	yes/No	Page no. in catlog	Remarks	

Bidder must completely fill the Technical Specification Form (TSF).
Only Yes/no/all complies should not be
written. Pagenumber 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

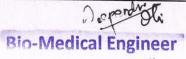
Maspender

Bio-Medical Engineer
NEC No. 365 "A"

FAFATA FATEFUT

TECHINICAL SPECIFICATION FOR Micro Pipette -variable

S.N.	Purchaser's Specification (Health Directorate, Dhankuta), F/Y-081/082	Bidder's complia		nce sheet	
	MICRO PIPETTE-VARIABLE	yes/No	Page no. in	Remark	
	Manufacturer			-	
	Brand				
	Type / Model				
	Country of Origin				
1	Description of Function				
	Micropipettes are micro tools constructed from anti corrosive material tubing for microdispension, microaspiration and micromanipulation purposes.				
2	Operational Requirements				
	Required in various sizes and compatible with all brands of tips.				
3	System Configuration				
	Manual Micropipette Set of variable sizes				
	with all standard accessories.				
4	Technical Specifications				
	Micropipettes required in following sizes:				
	a)P10: 1-10 µl				
	b) P100: 10-100 μl				
(c) P1000: 100 – 1000 µl			-	
B	Suitable for all brands of tips.				
C	Spring-loaded tip cone for tip attachment				
D	Advance ergonomics to limit strain on hand and arm & a our-digit volume display				
E	With tip ejector mechanism.				
5 A	Accessories, spares and consumables				
	All standard accessoric consumables and parts				
r	equired to operate the equipment, including all				
s	tandard tools and cleaning and lubrication				
n	naterials, to be included in the offer. Bidders				
n	nust specify the quantity of every item included				
iı	n their offer (including items not specified				
	bove).				
6 C	perating Environment		.110.1.31041.1.101		
AT	he product offered shall be designed to be stored and to operate normally				
u	nder the conditions of the purchaser's country.				
7 S	tandards and Safety Requirements	in the second second			
AM	fust submit ISO 13485 AND CE product certificate				
	ser Training				
M	fust provide user training (including how to use and naintain the equipment).				
	Varranty				
	omprehensive Warranty for 2year.				
	laintenance Service During Warranty Period				
Di	uring the warranty period supplier must ensure corrective/breakdown naintenance whenever required.				



निमत निर्देशक

S.N.	Purchaser's Specifications (Health Directorate, Dhankuta), F/Y-081/082	Bidde	's compliance s	heet
	MICRO PIPETTE-VARIABLE	yes/No	Page no. in catlog	Remarks
11	Documentation		- CHILDS	
	User (Operating) manual in English during the time of installation.			

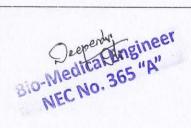
Bidder must completely fill the Technical Specification Form (TSF).
Only Yes/no/all complies should not be
written. Pagenumber in the catalogue of all the required parameters
must be clearly mentioned and highlighted.
Failure in doing so may lead to rejection of bid from technical committee

Bio-Medical Engineer
NEC No. 365 "A"

लिमन निर्देशक

Technical specification of Portable Colour Dopples Ultrasound Machine with two probes

S.N.	Purchaser's Specifications (f/y-081/82)	Bidders Offer
	Portable Colour Doppler Ultrasound Machine with two probes	
	Manufacturer:	
	Brand:	
	Type/Model:	
	Country Of Origin:	
1	Description of Function	
1.1	A general-purpose portable Colour Doppler Ultrasound imaging system with wide range applications including Abdomen, Obstetric, Vascular, Musculoskeletal, superficial Imaging.	
2	Operational Requirements	
2.1	It Shall operate on mains AC power supply.	
3	System Configurations	
3.1	The system should come with Color Doppler Ultrasound Scanner, linear array probe, convex array probe, Black and white thermal printer, manufacturer trolley.	
3.2	Must come with Digital colour Doppler Ultrasound Machine, 1 unit	
3.3	Must come with approx. 2-6 MHz Broadband curved array transducer – 1 unit	
3.4	Must come with approx. 2-14 MHz broadband linear array transducer- 1 unit	
4	Technical Specifications	
4.1	The operating system should be Linux or windows based for stable operation.	
4.2	The system should successfully perform in the following types of applications: Anesthesia, Abdominal, Small parts and superficial, Musculoskeletal, Obstetrics, Gynecology, Urology and Lung.	
4.3	The system including batteries should weigh not more than 9kg.	
4.4	The boot up time of system should be less than 60 sec.	
4.5	The system should be equipped multiple beam processing technology.	
	The system must be offered with at least 15 inch or higher Flat Panel Medical grade LCD	
4.6	Display monitor with 1024x768 resolution or better.	
4.7 4.8	The system should have backlit keyboard with at least 4-user defined keys.	
4.9	The system should be capable of scanning depth of 38cm or more.	
4.10	System must be offered with a very high dynamic range of 30 – 220 dB to pick up subtle echoes.	
4.11	The system must support broadband Convex array, Linear array, Phased array and TVS array probe.	
4.12	System should have provision for 2 probe ports.(Either 2 universal probe port or expandable probe port with adapter)	
4.13	System should support broad band probes spanning a frequency of approx. 1-16 MHZ with multiple 5 frequencies or more range in B mode /Color Mode/PW mode/CW mode.	
4.14	The system should have zoom up and Full screen zoom facility	
4.15	Should have Full alphanumeric keyboard.	
4.16	System must be offered with 8 TGC slide pot with independently adjustable Gain control in Axial plane.	



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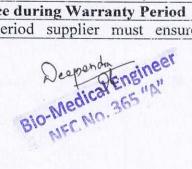
1.17	B mode & B colour simultaneously should be available side by side real time display of B- Mode & Colour flow. Digital zoom facility for regrep of interest in real time and frozen	
	images.	
.18	Image storage inbuilt hard disk of no less than 1 TB facility should be available.	
.19	System should have more than 10000 frames cine storage.	
.20	Operating modes: B-mode, M-mode, B/M Mode, Doppler Mode, Colour flow, Power Doppler, B/Colour flow, PW Doppler.	
.21	System must have 256 grey shades or better	
.22	System should have facility of DICOM and atleast 2 USB ports.	
.23	The system should support compound imaging and trapezoidal imaging in both convex and linear probe.	
.24	The system should have B, B/B, B/M, M, Color Doppler, PW, color M.	
.25	System should have all measurement packages, including Abdominal, OB, GYN, and Vascular.	
.26	System should have Needle Enhancement Software with dual live and steer angle 20 to 50 degree.	
1.27	The system should support to capture and review the archived images, and output the images and video to USB in scanning interface. Can support different export format including BMP, JPG, AVI, PDF, and DICOM.	
.28	The system should support IMT measurement, and the result can be displayed in report.	
.29	The system should have Adjustable Speckle Reduction Technology.	
.30	The system should have B steer facility.	
.31	System should have real time trace in PW mode.	
.32	System should support ECG Function for immediate upgradability in future.	
.33	System should have standby mode which can support a fast wake-up.	
.34	System should have built-in DICOM3.0	
.35	System should have one button for Image optimization for 2D / Color / M / PW mode/CW mode	
.36	System should have Body mark for easy examinations.	
	Accessories, Spare Parts and Consumables	
.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.	
.2	approx. 2-6 MHz Broadband curved array transducer – 1 unit	
.3	approx. 4-16 MHz broadband linear array transducer- 1 unit	
4	1 unit of black and white thermal printer	
.5	1 unit of company manufacturer trolley	
.6	1 unit of waterproof ,shockproof, USG case	
	Operating Environment	
	The system offered shall be designed to be stored and to operate normally under the	
.1	conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
.2	Power Supply: 220-240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 meters in length.	
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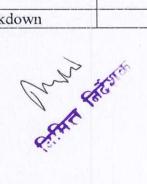
7	Standards & Safety Requirements
7.1	Must submit ISO for medical devices.
7.2	Must submit CE AND USFDA approved product certificate.
8	User Training
8.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The Training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.
9	Warranty
9.1	Comprehensive warranty for 3 years after acceptance.
10	Maintenance Service During Warranty Period
10.1	During warranty period supplier must ensure preventive maintenance & corrective/breakdown maintenance whenever required.
11	Installation and Commissioning
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	Must submit the valid authorization letter from manufacturer.

Bio Nede 365"A"

BARAM FARESTA

S.N.	Purchaser's Specifications(F/Y-2081/082)	Bidders Remarks
	Nebulizer	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
1.2	High quality nebulizer is a device used to administer medication to people in forms of a liquid mist to the airways. It is commonly used in treating asthma, and other respiratory diseases.	
	Operational Requirements	
2.2	Heavy duty compact Nebulizer is required.	
3.	System Configuration	
3.1	Nebulizer, complete unit with all standard accessories.	
1	Technical Specifications	
4.1	Compact, lightweight, low noise (less than 65 dB).	
4.2	Durable long life maintenance and oil free compressor. Suitable for heavy duty/institutional (hospital) use, must be able to run uninterruptedly.	
4.3	Must produce particle of size 1-5µm	
4.4	Piston-type or better electric aspirator that offers highperformance and great durability.	
4.5	Air delivery rate approx. 10l/min.	
5	Accessories, spares and consumables	
5.1	 Accessories: Adult and child face mask with medicine chamber and tubing - 1 each. Spare filters- 1 nos. Nebulizer carrying bag-1 nos. 	
5.1	All standard accessories, consumables and partsrequired to operate the equipment, including allstandard tools and cleaning and lubrication materials, to be included in the offer).	
5	Operating Environment	
6.1	The system offered shall be designed to store and tooperate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
5.2	Power supply: 220 - 240 VAC, 50Hz fitted withappropriate plug.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 9001 or ISO13485	
7.2	Must submit CE or USFDA Certificates.	
3	Warranty	
3.1	Comprehensive warranty for 3 year after acceptance.	
)	Maintenance Service during Warranty Period	
9.1	During warranty period supplier must ensure corrective/breakdown	





	maintenance wheneverrequired.	
10	Installation and Commissioning	
10.1	Ready to use preassembled unit.	
11	Documentation The gard	
11.1	User (Operating and maintenance) manual in English.	

Medical Transineer

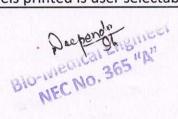
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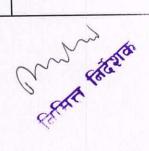
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Children Reference

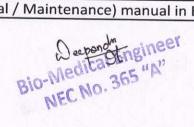
Technical Specification of ECG Machine, Portable (12 Channel)

	Purchaser's Specifications	Bidder's Compliance
S.N.	(Health Directorate, Dhankuta), F/Y-081/082	sheet
	ECG Machine, Portable (12 Channel)	Yes/No
_	Manufacturer	
	Brand	
	Type / Model	
-	Country of Origin	
4		
1	Description of Function	
1.1	ECG Machine is primary equipment to record ECG Signal in various configurations.	
2	Operational Requirements	
2.1	Portable digital ECG machine must be able to acquire all 12 Leads simultaneously.	
3	System Configuration	
3.1	Portable digital ECG machine with complete accessories	
4	Technical Specifications	
4.1	Simultaneous recording of 12 standard leads: aVR, aVL, aVF, I, II, III and	
4.1	V1-6 pre-cordials.	
4.2	Internal memory for data storage.	
4.3	Splash-resistant alphanumeric keyboard with function keys.	
4.4	With zeroing reset, auto-base-line correction (0.5Hz) and 1mV test/calibration signal.	
4.5	Filter setting for line-frequency (50 or 60Hz).	
4.6	Continuous check on the quality of electrodes connection, audio visual alert on loss of signal	
4.7	Appropriately protected for operation during defibrillation.	
4.8	Alphanumeric LCD display, approximately: 5 inches or more Display shows ECG-curves, heart rate, patient name and ID, time, speed and filter setting.	The state of the s
4.9	Machine Should have lead reversal Facility, it should display message.	
4.1	ECG should have colored waveform display for the quality of ECG waveform.	
4.11	Machine Should have print preview option before taking printout.	
4.12	Machine should have interpretation based on gender and age.	
4.13	Front panel provides indication of system and battery status, electrode.	
4.14	Built-in or integrated high-resolution thermal printer.	
4.15	Number of channels printed is user selectable: 3, 6 or 12.	





<u> </u>	AL ALLE	
4.16	Combination of channels printed is standard and user selectable and	
	with copy function.	
4.17	Paper speed, user adjustable: 5, 25 and 50mm/sec.	
4.18	Data interface: RS232 or equivalent. Self-test sperformed each time the	
14-27-28-28	device is switched on.	
4.19	Sensitivity, automatic or user selectable: 5, 10 and 20 mm/mV.	
5	Accessories, spares and consumables	
	Accessories:	
	· Patient cable-1 no.	
	Reusable chest electrodes, suction ball-type- 6 nos.	
5.1	· Extremity clamp electrodes, reusable- 4 nos.	
0.1	Box of A4 recording paper, 1000 sheets- 1 no.	
	· Bottles of electrode gel 350ml - 2 nos.	
	· Set of spare fuses- 1 set	
	· Plastic protective dustcover- 1 no.	
	All standard accessories, consumables and parts required to o perate the	
5.2	equipment, including all standard tools and cleaning and lubrication	
5.2	materials, to be included in the offer. Bidders must specify the quantity	
	of every item included in their offer (including items not specified	
6	Operating Environment	
	The system offered shall be designed to be stored and to operate	
6.1	normally under the conditions of the purchaser's country. The conditions	
	include Power Supply, Climate, Temperature, Humidity, etc.	
6.2	Power supply: 220-240V AC, 50Hz fitted with appropriate plug type D	
0.2	round 3 pins. The power cable must be at least 3 metre in length.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 13485 for Medical Devices	
7.2	Must submit CE (93/42 EEC Directives) and USFDA approved product	
8	User Training	
8.1	Must provide user training (including how to use and maintain the	
9	Warranty	
9.1	Comprehensive warranty for 2 years after acceptance.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure corrective/breakdown	
	maintenance whenever required.	
11	Installation and Commissioning	
11.1	Supplier must accomplish proper installation and commissioning of the	
12	Documentation	
12.1	User (Operating) manual in English	
12.2	Service (Technical / Maintenance) manual in English	

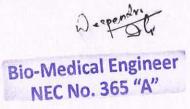


Charles Externa



TECHINICAL SPECIFICATION FOR BED SIDE MONITOR

S.N.	Purchaser's Specifications (Health Directorate, Dhankuta), F/Y- 081/082	Bidders Compliance sheet	
	Bed Side Monitor (ICU)	Bidder's Offer	Remarks
	Manufacturer		
	Brand		
	Type / Model		
	Country of origin		
1	Description of Function		
1.1	Advance high end vital signs monitoring of all patient categories, at bedside, OT or during transportation applicable for Adult, Pediatric and neonatal application		
2	Operational Requirements		
2.1	It shall operate on AC power supply as well as built-in battery.		
3	System Configuration		
1	Multi Parameter Patient Monitor, portable with complete accessories		
4	Technical Specifications		
AI	Monitor must be able to monitor ECG, Respiration, SpO2, NIBP, Temperature.	-	
	12" or more High Resolution TFT Display. Customized touchscreen display		
	Should have Adult, Pediatric and Neonatal measurement Modes.		
D	Monitoring parameters: ECG, Respiration, SpO2, NIBP, Heart Rate, Temperature etc.		



FATATA FATEFULE



	बन्हरा, त्रेयार	
Е	ECG: 3/5 Lead Selectable, Multiple Gain selection, variable Sweep Speeds, wide HR range (approx30-300 bpm) or wider with high accuracy (±5 bpm), Arrhythmia Analysis, ST Analysis & provide real time ST Complex view with Reference, Pacemaker Detection, Audibale and Visual Alarm with Events Recalling facility.	
F	Respiration: Thoracic -Impedance type, Wide RR range (5-120 bpm or wider), Adjustable Apnoea Alarm facility).	
G	SpO2:Masimo or Nelcor Probe. Range 1-100% with high accuracy (± 2% for 70-100%), selectable Plethysmographic Display and accurate Pulse Rate measurement (upto 250 bpm with accuracy of ± 2 bpm or 2%, whichever is greater), Perfusion Index, Audible and Visual alarms	
Н	NIBP: Measurement by Oscillometric method, Manual/Auto/STAT modes of operation for adult and pediatric, Manual and Auto for Neonates, Auto measurement: At selectable intervals, Measurement Range: 10-270 mmHg or more.	
Ι	Temperature: Wide range (Atleast 10 - 45°C), Celsius and Fahrenheit selectable, alarms. The monitoring system capable enough to monitor temperature.	
J	Patient Protection: All patients connections must be electrically isolated. System should be Defibrillator and Cautry protected.	

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K	Monitor must have internal Rechargable Lithium Ion Battery with more than 90 minutes of battery backup.	
L	Should be light weight (less than 7 Kgs including Batteries).	
M	Compatible wall mount stand should be provided along with the monitoring system.	
N	Must have Alarm limit display on main screen with audible alarms	
5	Accessories, spares and consumables	
A	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	
A	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.	
В	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug	
7	Standards and Safety Requirements	
	Must submit ISO 13485 for medical devices and CE (93/42 EEC Directives) and USFDA approved product certificate.	
9	Warranty (Written Document)	
A	Warranty Period: 2 years	Fed to
В	During warranty period, supplier must perform bi-annual maintenance of the system	



Bio Medical Engineer
NEC No. 365 "A"

Carry Estables



С	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required	
10	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.	
11	Documentation	
A	User (Operating) manual in English	
В	Service (Technical / Maintenance) manual in English	

MEC No. 365 "A"

Charles Calgara

Digital Sphygmomanometer (BP Apparatus)

S.N.	Purchaser's Specifications (Health Directorate, Dhankuta), F/ 081/082	Y- Bidder's Offer	Page No in catalogue
	Sphygmomanometer (BP Apparatus), Digital		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	Description of Function		
1.1	B.P. apparatus or sphygmomanometer is device used to measure arterial blood pr composed of an inflatable cuff to restric blood flow and to measure the pressure.	essure, t	
2	Operational Requirements		
2.1	It shall be self-inflating digital BP appar for adult and paediatric patient.	atus	7842
3	System Configuration		
3.1	Digital B.P. Apparatus with complete un with complete accessories.	nit and	
4	Technical Specifications		
4.1	It shall have one touch operation.		
4.2	It shall measure the systolic, diastolic are pulse rate and same shall be displayed o screen.		
4.3	Display: LCD digital display.		
4.4	Measurement method: Oscillometric typ	pe.or	
4.5	Measurement range: • Pressure 0 – 290 mm Hg. • Pulse: 40 – 180 beats /min.		
4.6	Accuracy: • Pressure: + 3 or - 3 mm Hg. • Pulse rate: + 5 or - 5% of reading	ng.	
4.7	Inflation: Automatic by electric pump.		
4.8	Deflation: Automatic pressure release v	alve.	
4.9	Pressure detection: capacitive pressure		
4.10	Shall work on 4 nos. AA alkaline batter with minimum life for 500 readings.		
4.11	It shall have auto shut off function.		
4.12	Shall come with suitable sizes of reusab BP cuffs of adult and paediatric.	le arm	
5	Accessories, spares and consumables		
5.1	Accessories: 2 x set of 4 nos. of AA alkaline batteries. 1 x carrying case.		
5.2	All standard accessories, consumables a parts required to operate the equipment,		



Charles Experience

S.N.	081/082	Bidder's Offer	Page No in catalogue
	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 product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.		
6.2	Shall operate on 4 nos. AA alkaline batteries.		
7	Standards and Safety Requirements		
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND		
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.		
8	User Training		
8.1	Must provide user training (including how to use and maintain the equipment).		
9	Warranty		
9.1	Comprehensive warranty for 2 years from acceptance.		
10	Maintenance Service During Warranty Period		
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.		
11	Installation and Commissioning		
11.1	Must supply preassembled unit, ready to use.		
12	Documentation		
12.1	User (Operating) manual in English.		
12.2	Service (Technical / Maintenance) manual in English		

Note: 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.

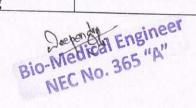
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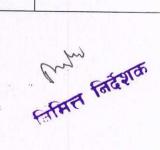
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B Technical Specification of Handheld type Pulse Oximeter

Specifications

Purchaser's Specifications	SPECIFICATION ,F/Y-2081/082	Bidder's Offer
Manufacturer		
Brand		
Type/Model		
Country of Origin		
Description of Function		
	Handheld - type Pulse Oximeter	
	For spot-checking arterial oxygen saturation	
	(SpO2, %) and pulse rate (PR, bpm).	The second
Operational	Suitable for professional clinical use across all	
Requirements	patient categories: neonate, infant, and adult.	
System Configuration	Complete unit with all standard accessories	
	including rechargeable battery, protective cases,	
	and carrying bag.	
Technical Specifications	• Measurement: SpO2 (35%-100%) with ±2%	
	accuracy; PR (25-250 bpm) with ±2% accuracy	
	Display: LCD/LED with backlight, numeric	
	display with plethysmogram	
	Data Storage: Atleast 50 patient ID with datas	
	Power Supply:	
	Should Operate on Standard Rechargable	
	batteries	
	Features: Trend review, pulse-tone	
	modulation, auto power-off, and robust shock-	
	resistant design.	
Accessories	battery charger	
	• 2 x spare batteries	
	carrying bag,	
Operating Environment	Designed to operate under the purchaser's	
	country-specific conditions, including power	
	supply, climate, and humidity.	
Standards and Safety	• ISO13485:2003/AC:2007	
Requirements	CE certified or USFDA approved	
User Training	Must provide user training on operation and	
	maintenance.	
Warranty	Comprehensive warranty for 3 year after	
	acceptance.	
Maintenance Service	Preventive and corrective maintenance as	
During Warranty Period	required during the warranty period.	
Installation and	Proper onsite commissioning of the equipment.	
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Documentation	User manual in English Technical/maintenance manual in English List of spare parts with part numbers and	
	Documentation	Technical/maintenance manual in English

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PARAM PAGESTON

TECHINICAL SPECTE CATION FOR STRETCHER

S.I	Purchaser's Specifications (F/Y-2081/082)		Bidder's Compliance Sheeet		
	Stretcher with trolley	Yes/No	Page No. in Catalo gue	Remarks	
	Manufacturer:				
	Brand:				
	Type/Model:				
	Country of Origin:				
	Description of Function				
1.1	A stretcher is a medical device used to transport patients who are unable to move or walk on their own due to injury, illness, or medical conditions. It is typically a flat platform made of a sturdy frame, often with a mattress or padding, designed to provide support and comfort during patient transport.				
	Operational Requirements				
2.1	Removable stretcher, Supported On the trolley				
3	System Configuration				
3.1	Patient stretcher Trolley, complete unit.				
	Technical Specifications				
4.1	High-strength stainless steel or aluminum alloy frame material for durability and lightweight handling.				
4.2	Powder-coated or corrosion-resistant finish for hygiene and longevity.				
4.3	Overall size(approx.): 1950mm(L) x600(W) mm.				
4.4	Fixed height(approx.) :810mm				
	Trolley should be provided with 150-200 mm diameter. Swivels				
4.6	castors wheels,2 with brakes for stability.				
4.7	Removable stretcher, Supported On the trolley Should be Pre-treated and arrays and arrays and arrays are tracked and arrays and arrays are tracked and arrays ar				
	Should be Pre-treated and epoxy powder coated Carrying capacity: 180kg or more.				
40	Pushing handles at both ends should be covered with PVC sleeves.				
	Should have smooth edges and burr free		10		
5	Accessories, spares and consumables				





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5.1	To be supplied with all standard accessories spares are consumables for complete functionality of the product		
6	Operating Environment		
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.		
7	Standards and Safety Requirements		
7.1	Shall be certified to meet ISO 9001 or ISO 13485:2003/AC:2007 and	4	
7.2	CE or USFDA approved product certificate.		
	User Training		
8.1	Not applicable		
	Warranty		
	Warranty for 3 year after acceptance.		
10	Maintenance Service During Warranty Period		
10.1	Standard warranty conditions are applicable.		
11	Installation and Commissioning		
	Must supply preassembled unit, ready to use.		
	Documentation		
12.1	User's manual shall be supplied in English.		

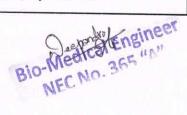
Bidder must completely fill the Technical Specification Form (TSF). Only Yes/No/All complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee.

Bio-Medical Engineer

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TECHINICAL SPECIFICATION FOR WHEEL CHAIR

	The state of the s	121
S.N	Purchaser's	Bidder's
	Specifications(F/Y:81/82)	Compliance Shee
***************************************	WHEEL CHAIR	Face Control of the C
*****	Manufacturer:	
	Brand:	
	Type/Model:	
	Country of Origin:	
1.1	Wheel chair is used in hospitals for means of mobility by disabled persons/or persons who have impairments that limit their ability to walk.	
2	Operational Requirements	
2.1	It shall be a foldable BUT shall NOT a collapsible type. The mechanism of folding & unfolding must be easy. Large standard adult size hospital wheelchair fixed/ foldable type. Easy maneuverable.	
3	System Configuration	Total Marie Total
3.1	Wheel chair invalid type.	
	Technical Specifications	
	Must be made of the highest quality materials such as Chrome polished finish or stainless steel.	
4.2	Overall approx. size: 680mm W x 1120mm D x 940mm H.	
4.3	Seat Width: approx.450mm to 470mm.	
	Seat Depth:approx. 400mm to 450mm.	
4.5	Wheels to have braking/locking mechanism and self-propelling SS hoops; two swivel castors (200mm dia. approx.) in front.	
4.6	Tire fitted with self-propelling hoops and brake arrangements.	
4.7	Tire sizes: Rear approx. 600mm (24") solid Mag tyres or Bicycle type spoked wheels, and Front approx. 200mm (8") Mag swivel casters.	
4.8	Armrests: Full, Padded, Fixed height.	
4 0	5cm thick, PU foam cushioned waterproof upholstery and easy to clean.	

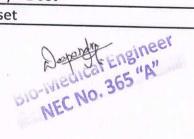


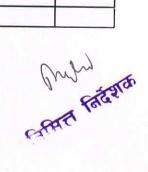
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4.1	Padded back rest, seat and push handle.	C. T.
4.11	Footrests: Fixed height and swing away foot plates made of Aluminium.	TO THE PARTY OF TH
4.12	Maximum Patient weight capacity: approx. 180kg.	
5	Accessories, spares and consumables	
5.1	All standard 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	
5.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND	
7.2	CE or USFDA approved product certificate.	
8	User Training	(基本) A E E SOME E E E E E
8.1	Not applicable.	
9	Warranty	
9.1	Comprehensive warranty for 2 years after acceptance	
10	Maintenance Service During Warranty Period	
10.1	Standard warranty conditions are applicable.	
11	Installation and Commissioning	
11.1	Must supply preassembled unit, ready to use.	
12	Documentation	
12.2	User's manual shall be supplied in English.	
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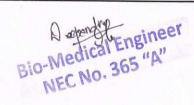
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CAL	COLOR FOETAL DOPPLER UNIT			
5.1	Technical Specification	Bidder's	s Compliance	Sheet
	COLOR FOETAL DOPPLER UNIT	Yes/No	Page no in Catalogue	Remar ks
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
	Doppler foetal heart detector is a handheld ultrasound			
1.1	transducer used to detect the heartbeat of a foetus for prenatal care.			
2	Operational Requirements			
2.1	Shall be handheld, lightweight and easy to carry.			
3	System Configuration			
3.1	Doppler, Foetal Heart Detector, complete with accessories.	4		
4	Technical Specifications			
4.1	Doppler based foetal heart rate detector with built in speaker			-
	and colour LCD display			
4.2	Ultrasonic working frequency, approx.: 3MHz			
4.3	FHR measurement ranger and display range shall be approx. 50 - 210 bpm			
4.4	Doppler shall have countinous mode of operation			
4.5	Accuracy should be ±2 bpm			
4.6	Colour LCD/TFT display show real FHR value, average FHR value, battery status and volume level, etc.			
4.7	System shall report operational status, malfunctions and low battery with audio-visual alerts.			
	Built-in loudspeaker with volume adjustment.			
4.9	The fetal doppler is designed with an overall sensitivity of approx ≥90dB, ensuring accurate and reliable detection of fetal			
	heartbeats.			
+.1	Shall operate on rechargeable battery with original battery that provides a full charge, allowing atleast 3 hours of continuous use.			
	ACCESSORIES			
-	Ultrasound gel - 2 tubes			
_	Carry bag - 1 set			
	Rechargeable Battery - 2 set			
	Battery charger - 1 set			





	A THE P		
	All standard accessories, consumables and parts equired to		
	operate the equipment, including all standard tools and cleaning		
5.3	and lubrication materials, to be included in the offer Bidders		
	Shall specify the quantity of every item included in their offer.		
	(including items not listed above.)		
6	OPERATING ENVIRONMENT		
	The product offered shall be designed to be stored and to		
6.1	operate normally under the conditions of the purchaser's		
6.1	country. The conditions include Power supply, climate,		
	temperature, humidity, etc.		
	Power Supply: 220 - 240 VAC, 50 Hz Single phased fitted with		
6.2	appropriate 3 pin plug (FLAT) or DC supply with adapter . The		
	power cable Shall be at least 3m long.		
7	STANDARDS AND SAFETY REQUIREMENTS		
7.1	Shall submit ISO12485-2002/AC-2007 for Madical Devices AND		
7.1	Shall submit ISO13485:2003/AC:2007 for Medical Devices AND		
7.2	CE (93/42 EEC Directives) or USFDA approved product		
1.2	certificate.		
8	TRAINING		
	Shall provide user training (including application: how to use and		
8.1	maintain the equipment) to concerned user until complete		
	familiarity with the system.		
9	WARRANTY		
9.1	Comprehensive warranty for 3 years on system.		
10	MAINTENANCE DURING SERVICE PERIOD		
10.1	During warranty period supplier Shall ensure		
10.1	corrective/breakdown maintenance whenever required.		
12	INSTALLATION, INSPECTION, COMMISSIONING		
	The bidder Shall arrange for the equipment to be installed and		
12.1	commissioned by certified or qualified personnel; any		
12.1	prerequisites for installation to be communicated to the		
	purchaser in advance, in detail		
13	DOCUMENTATION		
13.1	User (operating) manual in English .		
	Service/ Maintenance manual in English .		
	Manufacturer authorization letter		



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TECHINICAL SPECIFICATION FOR MANUAL SUCTION PUMP

	Purchaser's Specifications (Health Directorate, Dhankuta), F/Y-081/082	Bidder's Compliance Sheee		
S.N.	Suction Pump	Yes/No	Page No. in Catalogu	Remarks
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
	A manual suction machine is a portable device used to clear airways by suctioning out fluids such as mucus, blood, or vomit in emergency settings or when powered suction devices are unavailable.			
2	Operational Requirements			
	Foot Operated single jar suction pump for Ambulances, hospitals, etc.			
3	System Configuration			
	Suction machine with standard accessories.			
4	Technical Specifications			
A	Design and Mechanism Type: foot-operated. Mechanism: Piston pump, bellows pump, or squeeze handle (vacuum generation). Operation: Requires no electricity or batteries, suitable for emergencies.			

Bio-Medical Engineer
NEC No. 365 "A"

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	and the second		
	Vacuum Pressure		
F	Maximum negative pressure:Approx. 550 mmHg. Adjustable vacuum pressure for different patient needs. Capacity		
	Collection canister volume: 300–1000 mL (typically around 500 mL). Transparent, graduated canister for fluid measurement.		
	Tubing		
C	Suction catheter: Medical-grade, flexible tubing. Length: 1–2 meters, depending on the model.		
	Material		
D	Housing: Durable, lightweight plastic or metal. Collection container: Polycarbonate or other shatter-resistant materials. Tubing: PVC or silicone, latex-free.		
	Weight		
Е	Lightweight: Typically 0.5–2 kg, for easy portability		
	Safety Features		
F	Overflow prevention valve to avoid fluid backflow. Easy-to-clean design for infection control. Non-slip base or handle for stability during use.		
	Maintenance		
G	Autoclavable components for sterilization (canister, tubing). Replaceable filters and catheters.		

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	Performance	
Н	Manual operation rate: Approximately 50–100 mL per stroke.	
	Suitable for both adult and pediatric patients.	
	Portability	
1	Lightweight and compact, suitable for ambulances, field use, and home care.	
	Carrying handle for ease of transport.	
-	Ease of Use	
,	Ergonomic design for continuous or intermittent	
J	suction.	
	One-hand or foot operation, allowing	
	multitasking in emergencies.	
5	Accessories, spares and consumables	
	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	
	The product offered shall be designed to be	
A	stored and to operate normally under the	
	conditions of the purchaser's country.	
7	Standards and Safety Requirements	
A	Shall be certified to meet ISO/CE Certification.	
8	User Training	
	Should provide users training	
9	Warranty	
	Warranty for 2year.	

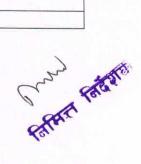
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Bio-Medical Engineer NEC No. 365 "A" CART FATESTOR



CNI	Purchason's Specificati (1) (8) (801/92)	
S.N.	Turchaser's Specifications (AR-081/82)	Bidder's compliance sheet
	Surgical ot light, Mobile (LED)	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
1.1	Mobile surgical OT light used in hospital for examination and surgical	
	procedure in wards and in treatment rooms etc.	
2	Operational Requirements	
2.1	Shall operate on mains electric supply.	
3	System Configuration	
3.1	OT light, mobile with all standard accessories.	
4	Technical Specifications	
	Number of domes: 1,dome dia: approx. 400mm	
4.1	Mobile medical OT light with stundy as a start of	
V.189711	Mobile medical OT light with sturdy construction and easily moveable.	
4.2	Shall have heavy base with 5 swivel castors, 2 with brakes. Caster must be medical chemical resistant.	
4.3	Low centre of gravity for optimal stability and reach.	
4.4	No of LED:30 or more	
4.5	LED shall have life time more than 50,000 hours of operation.	
4.6	Field-of-view diameter, approximately. 0.15m.	
4.7	Homogeneous illumination across entire field-of-view, approx. 90,000 lux (at 1m).	
4.8	Colour temperature, approximately: 4500K.	
4.9	Intensity control:10-100 digital,	
4.10	Focus adjustment:Adjustable manually	
5	Accessories, spares and consumables	
5.1	Accessories:	
J.1		N
5.2	1 x spare set of fuses. All standard accessories. 1 x spare set of fuses.	
0.2	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).	
6	Operating Environment	
5.1		
	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The	
	under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
5.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The	
	power cable must be at least 3 metre in length.	
	Power consumption, approximately: 10W.	
7	Standards and Safety Requirements	
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
7.2	CF (93/42 FFC Directives) or USED 4	
	CE (93/42 EEC Directives) or USFDA approved product certificate.	





S.N.	Purchaser's Specifications (7,081,22)	Bidder's compliance
8	User Training	511000
8.1	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 2 year after acceptance.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.1	Must supply preassembled unit, ready to use.	
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.	

Bidder must completely fill Technical Specification form. Only yes/no/all complies

Should not be written. Page no in the catalogue of all parameters must be clearly

Mentioned and highlighted. Failure in doing so may lead to rejection of bid from

Technical committee.

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	वर्गक्टा, मेवा	
S.N	Technical Specifications of lifesaving instruments set (Health Directorate, Dhankuta), F/Y-081/082	Remarks,Bidder's Offer
1	Intubation Set	
	An intubation set is a collection of tools and equipment used to perform endotracheal intubation, a procedure in which a tube is inserted into a patient's airway to ensure adequate ventilation and oxygenation	
a.	Endotracheal Tubes (ETTs): Various sizes (adult, pediatric, neonatal).	
b.	Laryngoscope: • Handles (battery-powered). • Blades (different sizes).	
C.	Stylet: A malleable rod to help shape and guide the ETT during insertion.	
d.	Bougie (Introducer): A flexible guide for difficult intubations.	
e.	 Suction Equipment: Yankauer suction catheter. Portable or wall-mounted suction device. 	
f.	Face Mask or Bag-Valve-Mask (BVM): • For pre-oxygenation or ventilation during intubation.	
g.	Oropharyngeal and Nasopharyngeal Airways: Used as adjuncts to maintain the airway before intubation.	
h.	Magill Forceps:	
	For guiding the tube in nasal intubation or removing obstructions.	
i.	Capnography or CO2 Detector:	٠
	 confirm proper tube placement by detecting 	
***************************************	aine.	>

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	Adhesive or Tube Holder:	
	 secure the tube post-intubation. 	
k.	Lubricant Jelly:	
ν.	Eudi Cant Geny.	
	ease the insertion of the tube	
2)	Catheterization set	
	Catheterization sets for mobile ambulances are	
	designed to facilitate urinary catheterization in	
	emergency or pre-hospital settings	
a.	Catheter	
b.	Lubricating Gel	
c.	Antiseptic Solution or Swabs	
d.	Syringe (10 mL or 20 mL)	
e.	Sterile Gloves	
f.	Fenestrated Sterile Drape	
g.	Drainage Bag	
h.	Adhesive Tape	
i.	Cotton Balls or Gauze Pads	
j.	Urine Measuring Container	
3	Delivery Sets	
	delivery set is a sterile kit containing essential tools and	
	materials for performing safe and hygienic deliveries	
a.	Sterile Instruments(scissors,cord clamps,Artery	
	forceps,Needle holder,Tissue forceps)	
b.	Sutures	
C.	Sterile drapes	
d.	Sterile Gloves	
e.	Sterile Gauze and Sponges	
f.	Umbilical Cord Scissors	
g.	Suction Device (Bulb Syringe or Catheter)	
h. i.	Mucous Extractor	
	Ridney Basin Perineal Pads or Towels	
j. k.	Sterile Umbilical Tape	
-	Antiseptic Solutions	
l. m.	Thermal Blanket or Wrap	
111.	Thermal blanker of wrap	
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4	Ambu Bag/Bag-valve-mask (BVM)	
	Ambu bag, also known as a bag-valve-mask (BVM), is a	
	hand-held device used to provide positive-pressure	
	ventilation to patients who are not breathing or not	
	breathing adequately	
	Bag: Medical-grade silicone, PVC, or SEBS (latex-free)	
	Mask: Silicone or polycarbonate with a cushioned edge	
	for a secure seal.	
	Patient Type:	
	Tatient Type.	
	• Adult: For patients >30 kg.	
	Pediatric: For patients between 7–30 kg.	
	• Neonatal: For patients <7 kg.	
	1 veolutar. For patients \7 kg.	
	It shall be self-inflatable and must have pop up	
	valve (non-return valve), attachment for oxygen	
	tube & oxygen reservoir	
	Semi-transparent Resuscitator bag	
	adult with face mask of appropriate size deliver	
	max. Tidal volume of approximate	
	1500 ml, the outer cover of bag	
	should be 100 % latex free, with	
	single shutter patient valve. The bag	
	should be made of silicone rubber.	
-		
	Resuscilators can be autoclaved repeatedly at 131	
	degree C.	
-	It shall be adaptable to all type of face masks.	
5.	Nebulizer Machine	
	A nebulizer machine is a medical device used to deliver	
	medication in the form of a fine mist directly to the	
	lungs, making it an essential tool for treating	
	respiratory conditions	
	Technical Specifications:	
	Particle Size (MMAD - Mass Median	
	Aerodynamic Diameter): approx. 1–5 microns	
	(ideal for lower respiratory tract delivery).	
	Nebulization Rate: Nebulizer:Approx. 0.2-	
	0.4mL/min	
	Compressor Flow Rate: Approx. 6 L/min	
	airflow.	
	a month	Constitution Contraction
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	Operating Noise Level: ~50–60 dB.	
	Power requirements: 240 Volts - 50/60 Hz	
	Accessories: 2 x reusable mouthpiece. 2 x air tubing set. 4 x reusable adult face masks. 2 x reusable paediatric face masks. 2 x air filters (depending on the model supplied).	
	Warranty-2 years	
6	SPLINTS	
	Splints are medical devices used to immobilize and support injured bones, joints, or soft tissues. They are essential for emergency care, particularly in ambulances, to stabilize fractures and prevent further injury during transport	
	Durability: Made of materials that can withstand repeated use.	
	Lightweight: Easy to carry and use in emergencies.	
	Adjustability: Can conform to various body shapes and sizes.	
	Patient Comfort: Padded or foam-lined to prevent additional injury or discomfort.	
	*Suitable for use with bandages and immobilization devices. * Radiolucent for diagnostic imaging	
	Easy Maintenance: Reusable splints should be washable or disinfectable.	
	Warranty: Comprehensive warranty for 2 years for all products	
	Training: Should provide users training about usage of the products	
	Certifications: ISO/CE certificates should be provided	

NEC No. 365 "A"

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Technical Specifications for ED

	Purchaser's Specifications (Health Directorate, Dhankuta), F/Y-081/082		Bidder's Compliance Sheee			
5.N.	AED	Yes/N o	Page No. in	Remarks		
	Manufacturer					
	Brand					
	Type / Model					
	Country of origin					
1	Description of Function					
	Automated External Defibrillator (AED)are portable, life saving					
	devices designed to treat people experiencing sudden cardiac		Service -			
	arrest.					
2	Operational Requirements					
	It shall operate on internal replaceable batteries.					
3	System Configuration					
	Automated External Defibrillator (AED) with complete					
	accessories, for adult and					
	paediatric use					
	Technical Specifications					
	System should have ManuIt shall be light weight, compact,					
	durable and very easy to use while offering all		1 W 1			
A	standard AED functional and Automated External Defibrillation					
-	(AED) modes. It shall be based on biphasic technology and the delivered energy	-				
D						
E	can be escalated					
	to 300J to 360					
C	LCD or LED display of 5" or more for visual instructions and		1177			
	ECG monitoring.					
	Output energy shall be user configurable					
<u> </u>	Lightweight (2–4 kg) for easy transport.					
F	Battery Life: Long standby time (3–5 years) and capacity for					
	multiple shocks (100 per charge).					
(CPR Feedback: Real-time guidance on compression depth and			3		
	rate during CPR should be available.					
F	Battery: Should have Long-life lithium-ion battery with a shelf	4				
	life of 3–5 years.					
	Internal memory to store event data (e.g., ECG and shock					
	history).			111111111111111111111111111111111111111		
	Monitor should show both Selected & Delivered Energy.					
	It shall supplied with the external charger.					
	Durable, with resistance to dust and water (IPXn).					
	Shall have Reusable Permanent Paddles (Adult & Pediatric).		VIII III			



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N	Shall be able to operate within a high range of temperatura (-5 to 45 degrees)			
0	Safety standards: against electric shock, against hamful ingress of water and flammable anaesthetic mixture with air oxygen or nitrous oxide			
	Accessories, spares and consumables	- 111		
3	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			
	The product 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,			
В	Power supply: 220 - 240 VAC, 50Hz fitted with appropriate			Alaman III
	Standards and Safety Requirements		THE STATE OF THE S	
	Must comply with ISO13485, European CE or USFDA	Talk l		
	IPX standard for Water tolerance and Dust Protection.	V T		
100	IEC 60601 for medical electrical device safety.			
	User/Technician Training			
	Must provide user/technician training (including how to use and maintain the equipment).			
9	Warranty (written document)			
	Comprehensive warranty for 2 years.			
В	During warranty period, supplier must perform bi-annual preventive maintenance and corrective/breakdown maintenance			
10	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			
	Documentation	11. 7		
	User (Operating) manual in English.			
E	Technical / Maintenance manual in English.			

Note:

 $Bidder\ must\ completely\ fill\ the\ Technical\ Specification\ Form\ (TSF).$

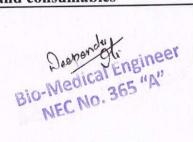
Page number in the catalogue of all the required parameters must be clearly mentioned and

highlighted.

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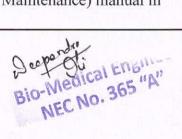
INCUBATOR (DICATAL: 40L)

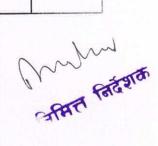
S.N.	Purchaser's Specifications (Health Directorate, Dhankuta), F/Y-081-082		Bidder's Compliance Sheeet			
	Incubator, 50 Litres	yes/No	Page no in Catlog	Remark		
	Manufacturer					
	Brand					
	Type / Model					
	Country of Origin					
	Description of Function					
	Incubator is a closed chamber which heats/chill a sample at a pre-set temperature for long term for applications like culture growth etc.					
2	Operational Requirements					
	Microprocessor/Microcontroller based digital controlled system.					
3	System Configuration					
	Incubator with 50 Litres or more capacity with all standard accessories.	a mage				
	Technical Specifications					
	Capacity: 50L					
В	Natural convection or forced air convection, with					
C	Temperature adjustable upto 65 °C with temperature resolution of 1 °C and temperature stability of \pm 0.5 °C.					
Г	Interior must be made of SS with rounded corners.					
I	Corrosion resistant Stainless Steel interior chamber with minimum 2 shelves removable, at least 1mm thick.					
	F LED/LCD display of parameters with touch buttor keypad for setting of parameters.	1				
(Shall have audio-visual alarm facility for abnormal temperature.					
]	It shall have double door with interior glass and exterior stainless steel.					
	5 Accessories, spares and consumables					



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	All standard accessories, consumables and pairs required to operate the equipment, including an standard tools and cleaning and lubrication materials, to be included in the offer.	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW
6	Operating Environment	
	The system offered shall be designed to be stored and to be operated normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
В	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
7	Standards and Safety Requirements	
A	Must submit ISO13485 for Medical Devices AND	
В	CE (EEC Directives) or USFDA approved product certificate.	
8	User/Techinician Training	
	Must provide user/techinician training (including how to use and maintain the equipment).	
9	Warranty (Written Document)	
A	Comprehensive warranty for 2 years after acceptance. All damaged spares will be replaced FOC within the warranty period.	
В	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required. And perform PM Bi-Anually.	
10	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.	
11	Documentation	
A	User (Operating) manual in English.	
В	Service (Technical / Maintenance) manual in English.	





Specification for Stetheoscope

S.N.	Purchaser's Specifications (FY:81/82)	Bidder's Offer
	Stetheoscope Advanced	
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
A	Description of Function	
	The stethoscope is a medical device for auscultation, or listening to internal sounds of an animal or human body.	
В	Technical Specifications	Li Li
a	Double sided Chest piece technology	
b	Chest piece must be copper, High polish machined stainless steel, matt mirror	
c	Diaphragm material must be epoxy/Fiberglass	
d	Net weight Approx.150 gram	
e	latex free	
C	Warranty	
a	Comprehensive warranty for 2 years	
D	Documentation	
a	User manual should be provided	

Bio-Medical Mos "A"

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