BUDDHASHANTI RURAL MUNICIPALITY
Office of The Rural Municipal Executive
Budhabare, Jhapa
1 No. Provience, Nepal

SPECIFICATION OF ITEMS

Project : Supply of Medical Equipments in Buddhashanti Rural Municipality Hospital
Job Description : Supply
Location :Buddhashanti Rural Municipality

S.N.	Description of Items		Technical Specifications	Bidder's Proposed Specifications	Remarks
Supply of Medical Equipments					
1	**Digital Color doppler ultrasound systems with Echocardiogyaphy-Complete Set**	*	It should be robust state of art, fully digitalhigh end latest Color Doppler UltrasoundSystem withHybrid beam forming ,capable of performing imaging applications in abdominal, obs/gynae, Fetal Heart, musculoskeletal,small parts, Urology, Breast, Pediatricetc.		
		*	System should have broad band beam former capable of processing signals from 2MHz to		
		*	System should have latest state of the art HybridBeam forming technology to ensure no Compromise between Temporal and Special resolution		
		*	System processing channels must be more than 285,000.		
		*	Frame rates more than 2,000 frames/sec preferred.		
		*	System with Digital TGC control is preferred.		
		*	System should have 4 active universal probe ports.		
		*	System should have in-built internal re-chargeable battery back-up at least 25 mm		
		*	System should incorporate facility for high resolution 2D, M-mode, PW,Color Flow Imaging, Color Power Angio imaging, Power Pulse Inversion Harmonics, Directional Color Power angio imaging modes,Auto IMT,Elastography and Comprehensive 4D Package.		
		*	System should have Full Spectrum Imaging,Tissue Harmonic Imaging, Spatial Compound Imaging, Pulse Inversion Harmonic Imaging,Trapezoidal Imaging,Quad Imaging, Dual Imaging in Horizontal Split, 2D/C Live Imaging, Automatic PW Doppler Adjustment and Auto 2D Adjustment		
		*	System should have auto biometry measurement in OBS application		
		*	System should have upgradability option of Auto measurement of NT in OBS measurement.		
		*	System should be upgradeable to Cardiac Strain Imaging with Bull's Eye reporting to assess the Cardio Vascular Risk.		
		*	System should be upgradeable to Auto IMT, Strain Based Elastography (quantitative assessment) & gel warmer.		
		*	System should have scan depth of 2 to 38 cm. Please specify through data sheet.		
		*	System should have 256 shades of gray display.		
		*	System should have facility for real time or frozen, pan or point zoom.		
		*	System should have cine loop review minimum 45000 frames and Loop Review for 14000 Lines. Please specify through data sheet.		
		*	System should have panoramic extended field of view.		
		*	System should be upgradable with Realtime 3D/4D imaging		
		*	System should have volume imaging features like Multi slice imaging, Oblique view, VOCAL etc. in 3D Imaging.		
		*	System should be upgradable to Fetoscoperendering mode that displays detailed volume rendering, enabling users to easily identify subtle anatomical structures with change in position of light source. Anatomies look realistic when viewed in color.		
		*	System should be upgradable with a Silhouette like rendering mode that projects the volume data surface and internal information simultaneously, so the internal structure along with the morphological information can be identified.		
		*	System should have Advanced Image Processing algorithm to analyze between targets and artifacts so as to sharpen target anatomy, reduce the speckle & artifacts to improve image quality.		
		*	System should have Dynamic range 256dB or more.		
		*	It should have extensive software and automatic and user programmable calculation package for gray scale, color Doppler, 3D and 4D applications.		
		*	Console height should be adjustable for user's comfort.		
		*	System should have more than 21" or more Flat panel Monitor (preferably LED) with resolution of 1920x1080.		
		*	Monitor should be mounted on Articulating Arm with tilt and swivel functions.		
		*	System should have more than 10" wide LED Touch Screen Control with resolution of 1280x800.		
		*	System should support single button to customize the workflow of Doctor.		
		*	System should be able to show hemodynamic color flow		
		*	System should be DICOM ready.		
		*	System should be US FDA and European CE Approved		
		*	System should have built in Image Management Software, for off line application when patient has gone after examination, such as Image Manipulation, Multi Planner reformatting, surface & volume rendering etc. It should have storage capacity of 500 GB or moreSSDDrive. Storage capacity should be upgradable to 1TB.		
		*	Respond to each specification in the same format and order and support it with Product Data Sheet.		
		*	System should be upgradable for special feature for betterneedle visualization.		

Project : Supply of Medical Equipments in Buddhashanti Rural Municipality Hospital
Job Description : Supply
Location :Buddhashanti Rural Municipality

S.N.	Description of Items	Technical Specifications		Bidder's Proposed Specifications	Remarks
		*	System should be upgradable for using 4D Endocavity Probe.		
		*	System should have advanced feature for Fetal Echo		
		*	System should have automatic tool for Follicular measurement in Volume Imaging as well as in 2D Imaging.		
		*	System should have upgradability option for structured reporting of Breast Lesions using BIRADS scoring.		
		*	System should have probe compatibility with High frequency Pediatric echo probe, Micro Convex probe & Small footprint hockey Stick Linear probe.		
			System should be provided with following transducer:		
		a	2D Convex Abdominal probe with frequency range from 2MHz to 8MHz		
		b	2D Linear probe for breast and MSK 3MHz to 16 MHz capable of doing Strain based Elastography		
		c	2D Endocavity (TV/TR) 4MHz to 9 MHZ capable of doing Strain based Elastography.		
		d	Sector Array Cardiac Probe 2MHz to 4 MHz capable of doing adult Echo/ICD		
			Optional Probes:		
		a	Optional: Pediatric Cardiac Probe3MHz to 8 MHz capable of doing 2D Echo& CW doppler		
		b	Optional: 4D Convex Volume Probe with frequency of 4MHz to 8MHz		
		c	Optional: Volume Endocavity Probe 3MHz to 9 MHz capable of doing real time 3D/4D imaging.		
			Accessories to be supplied along with the machine:		
		a	Digital USB Video Thermal Printer		
		b	Warranty& Free service		
		c	12 months from the date of installation for entire system including spare parts.		
		d	Free Labor AMC another 3 years without adding any additional amount.		
		e	Bidder should submit same model installation & service experience letter from any three reputed hospital in Nepal along with the bid from.		
2	**Digital X ray 500MA with 5 Position Table**	**a**	**Description of Function**		
		a1	X-Ray machine is used to view the internal organs like bones, kidneys, lungs,etc which helps to diagnose, monitor, and treat many medical conditions,		
		b	**Operational Requirements**		
		b1	X-Ray Should be 500mA with output power of atleast 40KW.		
		c	**System Configuration**		
		c1	500mA X-Ray Machine with complete accessories.		
		d	**Technical Specification**		
		d1	The generator should be atleast 500mA, 125KVP line frequency x-ray generator for general radiography.		
		d2	KV Range: Minimum 40-125KVp with increment of 1KV per step.		
		d3	mA: 500mA		
		d4	It should have solid state electronic timer ranging from 0.01 to 5 Seconds in 24 steps.		
		e	**Control Panel**		
			Attractively designed Control Panel having the following functions & features: • Push to ON/OFF Switches • Voltmeter to indicate Input Voltage • mA meter to indicate Tube Current • Digital Display of mA, KVP & mAs. • Voltage Compensator for compensation on Input Voltage. • Miniature circuit Breaker for Overload Protection. • Tube Overload Protection circuitry. • Major & Minor KVP Selection witches. • Technic Selection Switch. • Time Selection Switch. • Bucky Selection Switch. • Indicators for Line ON, X-Ray ON, Overload & Bucky Selection ON. • Switches for Ready & X-Ray ON. • A Dual action Hand switch is provided on the Panel with retractable cord for radiation Protection.		
		f	**HT Tank**		
		f1	The HI tank should be compact and must be filled with high dielectric transformer oil. -The HI tank should contain HI transformer, filament transformers, HI rectifiers ,bushings for HV Cable connection and HI Cable receptacles.		
		g	**HT Cable**		
		g1	The HI Cables should be atleast 6 meters long.		
		h	**X-RAY TUBE**		
		h1	The X-Ray tube must be rotating anode with dual focus of 21/42KW rating.		
		h2	The X-Ray tube should be thermally protected and has focal spots of 1mm and 2 mm.		
		h3	Nominal Tube voltage should be 40-125KV Max.		
		h4	Target must be made up of Rhenium-Tungsten faced molybdenum with target angle 16 Degrees.		
		h5	The X-ray tube should consist of permanent filtration of 0.9mm All 75KV		
		h6	The X-Ray tube should be cooled naturally or by forced air.		
		h7	The weight of the X-Ray tube should be less than 17 Kg.		
		h8	Anode Heat Storage Capacity - 140KHU		
		i	**COLLIMATOR**		
		i1	The unit should be supplied with manual light beam diaphragm with rotation for adjustment of exposure area.and must consists of 2 5m Aluminium filter		
		i2	The Collimator Should be fitted with Lead Shutters for the X-Ray and must consists of High Power Bulb to indicate theradiated field.		
		i3	The collimator must be easily detachable from the tubehead.		
		j	**TUBE STAND**		
		j1	Floor to ceiling tube stand mounted on floor - ceiling rails for convenient movement. The tube stand should be 360° rotatable and must have a counter balanced tube head. The tube head should be ±180° rotatable.		
		j2	The Tube head can be moved UP & DOWN and also can be maneouvered in a way to Position it with lot of flexibility.it can be rotated easily for taking On table exposures & Chest X-Rays on the Chest Stand or on Vertical Bucky Stand.		

Project : Supply of Medical Equipments in Buddhashanti Rural Municipality Hospital
Job Description : Supply
Location :Buddhashanti Rural Municipality

S.N.	Description of Items	Technical Specifications		Bidder's Proposed Specifications	Remarks
		j3	Manual locks should be provided for all Rotations/ movements of the Tube Head. Additionaily, there should be the provision of foot operated Lock to lock the Stand on its track.		
		j4	The tube stand must travel the longitudinal length of approx. 11 Feet and the tube stand must be equipped with double Steel Wire Rope for safety.		
		k	**RADIOGRAPHIC TABLE**		
		k1	The table should be manual multiposition 5 position table.		
		k2	It should have a motorised bucky consisting of a grid having 85 lines/inch and 8:1 ratio.The power supply for bucky should be 220V AC,50/60Hz.		
		k3	The size of the grid should be atleast 17' X 17".		
		k4	Bucky should be counterbalanced and should move throughout the entire length of the table.		
		k5	It should consists of stainless steel cassette tray, foot rest and grips.		
		k6	It should bear patient weight of atleast 200Kg		
		l	**CHEST STAND**		
		l1	The bidder's must provide chest stand.		
		m	**Accessories and spares**		
			Spare bulb for collimator: 02 no. Dust cover: lnos Spare fuses: 1 set Thyroid shield 0.35mm : 1 no. lead apron 0.5mm : 1 no. Abdominal Compression Band : 1 no.		
		n	**Operating Environment**		
		n1	The product offered shall be designed to be installed and to operate normally under the conditions of the purchaser's site. The conditions include Power Supply, Climate, Temperature, Humidity, etc		
		n2	Power supply:3 Phase, 440Volts AC,5OHz with line regulation of ±10% and power consumption must not exceed 50KVA.		
		o	**Standards and Safety Requirements**		
		o1	The bidder must submit EN ISO 13485:2016 for Medical Devices AND		
		o2	The bidder must submit EC approved certificate for product.		
		p	**User Training**		
		p1	Must provide user training (including how to use and maintain the equipment).		
		q	**Warranty**		
		q1	Comprehensive warranty for 1 year.		
		r	**Maintenance Service during Warranty Period**		
		r1	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.		
		r2	Bidder must submit the price for spare parts and accessories,Annual Maintenance Contract(AMC) and Comprehensive Maintenance Contract(CMC) at the time of bidding.		
		s	**Installation and Commissioning**		
		s1	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.		
		s2	All the civil, mechanical and electrical works should be done by Bidder's during installation.		
		t	**Documentation**		
		t1	User (Operating) manual in English.		
		t2	Service (Technical I Maintenance) manual in English.		
		t3	Bidder must submit the certificate of inspection and calibration from the manufacturing company.		
3	**C.R System for X-ray Double pray**	**a**	**CR Reader Unit**		
			> Reading Capacity: Minimum 55 plates/hr. > Vertical Cassette Insertion > OPG (Ortho Pantomography) Readable > Minimum Reading Specification: 10 pixels/mm > Operatable on Single Phase Line > Non Table-Top Model		
		b	**CR Console**		
			> Main Workstation-Multi Function CR Console with assured quality > High Resolution 19" LED Monitor > Adequate Image Capacity of 500 GB > Multi Patient Viewing & Printing > Image Magnification > Distance and Angle Measurement > Exporting images in BMP, JPEG and AVI Formats on DICOM & NON-DICOM > Burning Facility in CD & DVD		
			CR Cassettes & Imaging Plates		
			> 8"xlO"= 1 > 10"xl2"= 1 > 14"x14" 1 > 14"x17"= 1		
			Dry LASER Printer		
			> Dry LASER Printer > Printing Capacity: Minimum 80 sheets/hr. of 14"x17" > Pixel Sizes: Acquiring both 501.tm (508 dpi) and 100 tim (254 dpi) > No. of Trays: 2 Trays Online > Compatible Film Type: Dry Film Sensitive to Light > Film Print Sizes: 8"x10", 10"x12", 10"x14", 14"x14", 14"x17" > Daylight Film Loading System > Minimum Image Memory of 1GB Minimum Grayscale Resolution of 14 Bits > Operatable on Single Phase Line > Non Table-Top Model		
4	**Semi Automatic biochemistry**	a	150 Open user programmable Test parameters		

Project : Supply of Medical Equipments in Buddhashanti Rural Municipality Hospital
Job Description : Supply
Location :Buddhashanti Rural Municipality

S.N.	Description of Items		Technical Specifications	Bidder's Proposed Specifications	Remarks
	Analyzer	b	10 Assay Modes : 1 point Linear,2 Point Linear,1 Point Non Linear,2 Point Non Linear, Rate Linear, Rate Non - Linear,1 Point Sample Blank Linear,1 Point Sample Blank Non Linear, Absdrbance and Coagulation.		
		c	Photometric range : 0-3.0 A and photometric resolution up to 0.001		
		d	Measurement mode: Monochromaric / Bichromatic		
		e	Flow Cell Temperature : 25degreeC,30 degreeC,37degreeC by Pettier Control		
		f	Triple Cuvette facility (Flow Cell, manual cuvette, round glass tube for Coagulation and Elisa tests)		
		g	Flow Cell volume : 33u1		
		h	wavelength :340,405,505,546,578 and 630nm		
		i	Inbuilt Thermal Printer		
		j	Aspiration volume: 350-999ul (user programmable) using peristaltic pump.		
		k	Extensive QC program with L-J Graph		
		l	1000 Test Result Storage		
		m	External 1EVDC Universal SMPS Adaptor		
		n	USB port for interface with PC. Additional USB port for external printer.		
		o	ISO 13485 and CE certified.		
5	**Hematology Analyzer 3 part**		**Description of Function**		
			Automated blood cell counteris used to count WBC, RBC and platelets		
			Operating Environment		
			Automated blood cell counter that measure minimum 22 parameters including 3 part differential of WBC is required		
			System Configuration		
			automatic cellcounter, complete unit with allstandard accessories		
			Technicals neciflcation		
			Measurement principalzelectrical impedancemethod for WBC, WBC Diff, RBC, MCV, PLT and Cyanide Free Colorimetric method for HGB		
			3 countingmode : wholeBlood, prediluted blood,Capillary		
			Samplevolume: Venous blood approx10ul, Capillary20 ul, Prediluted capillaryblood 20ul		
			Through put (approx.) : 60 sample per hour		
			Carryover : WBC/RBC/HGB <0.5%, PLT <l%		
			Accuracy&Precision (CV) : WBC S 2.0%, RBC≤ l.5%,HGB ≤ 1.5%,MCV ≤ 0.5%, PLT ≤ 4%		
			Linearity Range for Measured Parameter WBC:0to300x 103/1, RBC: 0 to 8.0x 106/L HGB : 0 to 25 g/dl PLT : 0 to 3000 x 10% HCT : 0 to 65%		
			Dual counting chamber: WBC Chamber~100um and RBC/PLT~ 70um		
			Alarms : ErrorMessages		
			Printout:Built-in thermal printer, 55mm width paper, Various printout formats		
			Up to 50,000 sampleresulaincmainghistograms) stored		
			Display: LCD display with Touch Screen with (10" LCD Touch) and Mouse Operation		
			Samplingprobemust be automaticallycleanedoff, so that i anyblood stock does not occurs		
			Port interface: xRSZ32 port, 4 xUSB should support LIS system.		
			Reagent: Machine Should support two reagents (Diluent and Lyse) for testing procedure for cost effectiveness and Reagent Cost pertest should be attached separately for two year and Reagent cost also is part of pric evaluation.		
			Reagent Inventory and Identification are done by RFID Method.		
			Manufacture of it should have their own Calibrator and Tri level Quality Control.		
			Automatic FlushingSystem to remove blockage		
			Accessories, Spareand Consumables		
			All standards accessories, consumables and parts required to operate the equipment, including all standard tools and clearing and lubrication materials, to be included in the offer. Bidders muststpecify the quantity of every item included in their offer (includingitems not specified above)		
			Operating Environment		
			The product offered shall be designed to best oredand to operate 1 normally under the conditions of the purchaser's country.The Conditions include power supply,purchaser's country requirements. Thepowercable must be minimum 3 meters long		
			power supply220V -240VAC, 50 Hz fitted with appropriate plug.		
6	**Compact Immuno - Analyzer**		**Description of Function**		
			Semi-auto portable fluorescence scanning immunolyzer for measuring the concentration of designated analytes in human blood, urine and other specimens; duly processed and tested in accordance with various Immunoassay Tests		
			Operating Environment		
			Can be used for screening, monitoring and/or routine physical examination in centralized laboratories of hospitals, physicians'		
			System configuration		
			When collected samples are loaded to a test cartridge, it should display the test by measuring the intensity of		
			Technical specification		
			Working Principle: Florescent Immunoassay		
			Display:LCD displaywith Touch Screenwith (7 LCD Touch) and MouseOperation		
			Communication Port: USB 4 ports, LAN Port, USB OTG port		
			Sample Type: Whole blood, Serum and Plasma		
			Through put (approx.) : 30 test per hour		
			Should have at least 60 test parameters with parameters like: Troponin I, CK-MB, D-Dimer, NT-pro BNP, Myoglobin, PSA, AFP, CEA,HbA1C, Microalbumin, Cystatin C, TSH, T3, T4, FSH, Beta-HCG, LH, Prolactin, Procalcitonin, ASO, RF IgM, Anti CCP, VitaminD, Total IgE, Calprotectin.		
			Must have Built 1n timer to ensure the accuracy of the test		
			Printout:Built-in thermal printer		

Project : Supply of Medical Equipments in Buddhashanti Rural Municipality Hospital
Job Description : Supply
Location :Buddhashanti Rural Municipality

S.N.	Description of Items		Technical Specifications	Bidder's Proposed Specifications	Remarks
			Stored up to 1000 patient result, 500 system check result and 1000 control result		
			Lightweight table top analyzer with dimensions approximately: 275x225x90 mm and weight about 1. 5kg		
			Accessories, SpareandConsumables		
			Dry Block Incubator for maintaining the temperature of special test		
			All standards accessories, consumables and parts required to operate i theequipment, includingallstandard tools and clearing 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		
			Theproduct offered shallbedesigned to bestoredand to operate normallyunder the conditions of thepurchasers country. TheConditions include power supply, purchaser's countryrequirements. Thepowercable must beminimum3 meters long.		
			Power Supply: DC 12V/5A AC/DC Adaptor Input: 100-240V - 50/60Hz, 1.8A Output: DC 1 2V/5A Battery: DC 1.5V X 4ea		
			Standards and Safety Requirements		
			MustsubmjtlSO 13485 :2003/AC:2007 forMed ical Devices AND		
			CE certificate		
			UserTraining		
			Must Provideuser trading(includinghow to use and maintain the equipment)		
			Warranty		
			Comprehensive warrantyfor 1 years		
			Maintenance Service during warranty period		
			During warrantyperiod supplier must ensure corrective/breakdown maintenancewhenever required.		
			Installation and Commissioning		
			Thesuppliers must arrangefortheequipment to beinstalled and commissioned bycertified or qualified personnel :any prerequisites for installation to be communicated to the purchaser in advancein detail		
			Documentation		
			> User (operating) manual in English > Service (Technical/Maintenance)manualjn English > FactoryCalibration Certificates		
7	**Binocular microscope**		**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 has high magnification.		
			Operational Requirements.		
			System complete with illumination system required.		
			System Configuration.		
			Binocular Microscope (LED) with complete accessories		
			Technical Specifications		
			Optical System:		
			Infinity optical system. Plan achromatic lenses and parts with anti-fungal coating. Magnification must be 40X-1000X. Illumination: Built in transmitted illumination. The illumination must be with LED (approx. 3W) illumination having life time 20,000 hours of operation or more.		
			Focusing:		
			Coaxial coarse and fine adjustment Fine graduation: 2.Oum. (approx.) Total travel range: 15mm or more. Facility for light intensity adjustment while viewing the object. Facility of stopper mechanism to prevent specimen damage while focusing Revolving nosepiece: Quadruple.		
			Observation tube:		
			Observation tube must be of Binocular design with two working heights at minimum 370 with ergonomic head inclination at 30°		
			Interpupillary distance adjustment must be from 48-75mm		
			Mechanism for diopter adjustment		
			Stage:-		
			Wire movement mechanism, fixed stage		
			Travel range 76x30 mm (approx.) having specimen position Scale.		
			Single specimen holder.		
			Condenser:		
			Type-Abe condenser N.A —1.25		
			The Objectives: must be antifungal Plan Achromatic Objectives		
			4x/0.1, 10x/0.25, 40x/0.65, 100/1.25 Oil immersion. 40x & 100 x Objective spring loaded. Making for the Objectives: Each objective must be engraved with the following information. Name of the manufacturer Magnification and numerical aperture, for example, lOx/0.25 100x objective must be engraved with the word 'Oil' Eye piece must be WF-10X/ F.N. 20 Weight of microscope must be less than 6 kg. Sample of microscope should be made available for inspection by technical committed at the time of bidding		
			Accessories, spares and consumables		
			Accessories: Dust cover, Aluminum Carrying Case, mirror unit — 1 pcs		

Project : Supply of Medical Equipments in Buddhashanti Rural Municipality Hospital
Job Description : Supply
Location :Buddhashanti Rural Municipality

S.N.	Description of Items		Technical Specifications	Bidder's Proposed Specifications	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		
			The system offered shall be designed to operate normally under the condition 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 meter length.		
			Standards and Safety Requirements.		
			Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND CE approved product certificate		
			User Training.		
			Most provide user training (including how to use and maintain the equipment)		
			Warranty:		
			Comprehensive warranty for 1 yearfrom acceptance.		
			Installation and Commissioning.		
			Supplier must accomplish proper installation & commissioning of equipment onsite.		
			Documentation.		
			User (Operating) Manual in English. Service (Technical/Maintenance) manual in English. List of important spare parts and accessories with their part number and costing.		
8	**12 Channel ECG Machine**		High resolution 10.1 inch color TFT with touch screen		
			On screen display of 12 channel ECG with interpretation		
			Compact, light weight and portable with carry handle		
			In-built thermal printer with auto and manual mode		
			Digital filters to eliminate baseline drift, AC and EMG interface		
			Isolation protection against defibrillation		
			Virtual pop-up keyboard for data input		
			Supports USB keyboard, mouse and pen drive		
9	**Colorimeter**		Measuring apertures Ø8 mm (PCE-CSM 2), Ø20 mm (PCE-CSM 4)		
			Sensor Silicium-photodiode		
			Colour spaces CIEL*a*b*C*h CIEL a* b* CIEXYZ		
			Light source D65		
			Type of light source LED		
			Data memory 100 standards, 20000 samples		
			Aberrance in-between the utilities ≤0,50ΔE*ab		
			Repeatability 30 measurements on average, with standardwhite plate		
			Standard deviation within ΔE*ab 0.08		
			Weight 500 g		
			Dimensions 205 x 67 x 80 mm		
			Power Supply rechargeable lithium-ion-batteries 3.7 V at 3200 mAh		
			Charging time 8 hours		
			Battery operation time approx. 5000 measurements		
			Lifetime of lamp 5 years, more than 1.6 million measurements		
			Temperature range 0 ... +40 °C		
			Relative humidity 0 ... 85 %, non-condensing		
10	**Centrifuge**				
11	**Water Bath**				
12	**Incubator**				
13	**Hot air oven**				
14	**Neddle Destroy**				
15	**Full Folding Bed**				
16	**Double Folding Bed**				
17	**Surgical Bed**				
18	**Multi paramonitoring system**		Minimum 12.1" high resolution TFT COLOR Screen with wide viewing angle		
			Adult, Paediatric & Neonatal Monitoring		
			ECG, NIBP, Pulse Oximetry(SP02), 2-Temperature, Respiration Parameters should be available.		
			Should be Electrocautery and Defibrillator protected.		
			Heart Rate: 15-300 bpm (Adult) & 15-350bpm (Neonate)		
			HR 15-300BpM (Adult), 15-350BpM (Neonatal)		
			Resolution 1BPM		
			Accuracy 1%		
			ST Range ±2.0mV		
			Pace Detection should be available		
			Sweep Speed 12.5mm/s, 25mm/s, 50mm/s		
			Bandwidth 0.05 ~130 Hz; 0.5 ~ 40 Hz; 1 ~ 20 Hz		
			Trends Storage should be available up to 45 days		
			Waves review upto 12 hrs.		
			Arrhythmia detection and graded alarm facility		
			Pace detection should be available		
			Drug dose calculation & Titration Table should be available		
			ST Segment analysis should be available		
			Color coded Visual, Audible & Voice alarms		
			The monitor should be Electrocautery, Defibrillator protected		
			4-hrs battery back-up		
			Night mode facility should be available		
			USB port should be available for onsite software upgradation and attachment to keyboard		
			Networking capability with Central Monitoring system should be available		
			Active VGA Port should be available to display all the parameters on slave moritor		
			3 CH ECG waveform in all Layout.		

Project : Supply of Medical Equipments in Buddhashanti Rural Municipality Hospital
Job Description : Supply
Location :Buddhashanti Rural Municipality

S.N.	Description of Items		Technical Specifications	Bidder's Proposed Specifications	Remarks
			7 Leads in ECG full leads layout with lead, gain and filter change option.		
			Equipment must be CE Certified		
19	I V Stand				
20	Bed Side Locker				
21	Bed Side Screen				
22	Roller Mixer				
23	Protein Analyzer				
24	Electrolyte Analyzer				
25	Cilia Analyzer				
26	Digital Centrifuge				
27	Digital Water Box				
28	Digital Hot Airolax				
29	Laboratory Software				
30	Electric Suction				
31	ENT Set				
32	Patient Examination Table				
33	Ambu bag child/adult				
34	Laryngoscope				
35	Perlight				
36	Delivery Bed				
37	Baby Warmer				
38	Resuscitation Table				
39	Nebulizer Set				
40	Fetus Doppler				
41	Pulse Oximeter				
42	Vacuum Set				
43	Stethoscope				
44	Sphygmomanometer				
45	Thermometer				
46	Guddels Air Way				
47	Steel Stool				
48	Urinal				
49	Bed Pan				
50	Medicine Trolley				
51	Stretcher				
52	Dressing Trolley				
53	Suture Set				
54	Dressing Set				
55	Glucometer				
56	Nasal Prong				
57	Face Mask adult/child				
58	Personal Protective Equipment (PPE) Multi-Purpose Use				
59	Use and Throw Thermometer				
60	Surgical Gloves				
61	Surgical Mask				
62	Sanitizer				