## Technical Specification of Colour Doppler Ultrasound Machine

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet			
	Colour Doppler Ultrasound Machine	Yes/ No	Ref Docs Page No.	Remarks	
	Manufacturer	0.000	AN ION SHELS	anan (	
	Brand	Tabila.		loght 1 og	
	Type/Model	101200	ne dala set se	1.561 15	
	Country of Origin	COURSE:	Menoral Inc.	2100	
1	Description of Function	1. 1930.	Carlo onoise		
1.1	A general purpose Portable Colour Doppler Ultrasound imaging system. Widely used in diagnosis of abdomen,	Stores S		237 P.	
	obstetrics, gynaecology, Urology, Vascular and small parts.	10 3300	a significant	17162	
2	Operational Requirements			2.372	
2.1	It shall operate on mains AC power supply.	P. C. Star	12871248 2703		
3	System Configuration		N. The second		
3.1	System shall come with main unit, 2 probe, 1 unit of black and white video thermal printer.			1000	
4	Technical Specifications			009	
4.1	Main applications: OB/GYN, abdominal, Urology, Vascular and small parts.	1001.375			
4.2	The system shall have latest generation with Minimum grey scale resolution to be 256 with 1024 or more digital processing channels.				
4.3	256 Grey shades for sharp contrast resolutions.	A STORE			
4.4	Scan modes: M-mode, B-mode and 2-D, Colour Doppler, Pulsed wave Doppler, Power Doppler.			21	
4.5	Tissue Harmonic Imaging: System shall have Harmonics on the probe following modes in harmonic with separate setting for trapezoidal image.		t the sectors		
4.6	Automated gain control for additional level of flexibility to image quality control.	Net Ser	Turne and		
4.7	Near and far gain adjustable.	1.1.5			
4.8	Contrast, adjustable.		10.20.000	1000	
4.9	Shall have facility for image zoom, freeze, text annotation. System should have both online as well as offline zooming facility.	ent bu			
4.10	Focus: auto adjustable.			1 Takes	
4.11	Main unit with in-built 15" or more adjustable High resolution LED/LCD monitor with automatic Brightness adjustable. In built Alphanumeric Hard Key Board.	0.7 .28	Shuddh		
4.12	Back light Keyboard and integrated speakers.		2 al alla	a interior	
4.13	System should support transducer like Linear, Convex, and Endocavity without need of any extra hardware and software. System should have at least 2 active ports connectivity.		No. Province, Nep	Exeruite Ichi	
4.14	Various maps for pre and post processing.		A.D.	100	
4.15	System should have ability to enhance tissue margins and improve contrast resolution by reducing artefacts and improving visualization of texture patterns and needle tip	and to the			

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S.N.	Purchaser's Specifications				e Sheet	-
	within the image.					-
.16	Cine memory of 250 frames for cine loop playback.	-				-
4.17	Should have multiple USB port connectivity.		-			-
4.18	Frame grabber facility for post analysis.					-
4.19	Frame rate: not less than 350 fps.		-			-
4.20	Dianlay depth: minimum 30cm, or more.	<u></u>				-
4.21	Facility for high definition digital acquisition, review and			100		
	editing of complete patient studies.					
4.22	The system shall accept most of the common probe types of: convex array, linear array, Endocavity probe.					_
4.23	Amplication specific examination protocols with common	Section.	1	inya and		
4.23	setting related to image display / adjustment, annotation &	1.3		1933		
1.04	Obstetric analysis: BPD, CRL, AC, HC, FL, GS, AFI, etc.					
4.24	Gen Estimation of Gestational Age and Foetal Weight, rical	1		S. Starting		
	Rate, growth chart, Obstetric Doppler Calculation (MCA,					
	umbilical artery etc.) and OB/GYN report system.					_
1.05	Body markers.					_
4.25	Time & slope for M-Mode.					_
4.26	With tissue optimization function.					
4.27	With function to reduce patch noise and other image artefacts				Contraction of the second s	
4.28	without compromising quality of images.			In The second		
	Dynamic range, selectable up to approximately 200dB.				Prove Land	
4.29	Image storage: System should have be able to store at least					
4.30	Image storage: System should have be dole to store and			and the second		-
	250GB data/image on main unit. System shall be DICOM ready and capable of being					
4.31	System shall be DICOM ready and capable of being	223.1	1.1			
	interfaced with HIS/RIS/PACS.					
4.32	Facility for future upgradeability, All new software. System should have Tissue Specific Imaging and Trapezoid	-				
4.33						
	Imaging.					
4.34	System should have 3D/4D Imaging.					
4.35	It shall come with a company made trolley on caster to hold					
	the main unit on top with provision of at least 2 probe holder,	de la manda				-
	thermal printer.The machines should support broad band probes spanning with		94 U. 19	ant office		
4.36	The machines should support broad band probes spanning water	es ritod	avi di l	and the first		
	frequency range from 1-16 MHz 1 unit of broad bandwidth of 1 - 6MHz, ±1convex array prob	e		1000	1 and 1	
4.37	for OB/GYN and abdominal application.	1	5			
	1 111 C2 12MULT 1 Impor array prop	e	O	GYT THU.		
4.38	for Breast, EM, MSK, Vascular, Small Parts	294 U.S.	Ble Co	an u	134	
1.00			Name	Reral Municipa	Jon 1	
4.39			N/V	akadi, Rup	Jepal	
4.40	Accessories, spares and consumables	C. J. B.		Province,	1000 00	1.18
5	Accessories:	12 201	1000			
5.1	<ul> <li>Black and white video thermal printer with 10 rolls of high</li> </ul>	h				
	density recording paper			Science and		1-11
5.2	All standard accessories, consumables and parts required to	100	STR.		2 K. 25	
3.2	operate the equipment, including all standard tools and	100 200	1291	annas (per		
		10,20	0		in	
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20,00	Er. Umesh Kumar Chaudhary	YN	N	i Ma'o	ffice.	
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S.N.	Purchaser's Specifications	Bidder's Compliance Sheet			
	cleaning and lubrication materials, to be included in the offer.				
	Bidders must specify the quantity of every item included in	The second second			
	their offer (including items not specified above).				
6	Operating Environment				
6.1	The system offered shall be designed to operate normally				
	under the conditions of the purchaser's country. The				
	conditions include Power Supply, Climate, Temperature,				
	Humidity, etc.				
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate				
1.2.2)	plug. The power cable must be at least 3 metre in length.				
6.3	Must supply suitable online UPS for at list 30 min battery				
	backup for the entire system.				
7	Standards and Safety Requirements				
7.1	Must submit ISO 13485 or ISO 9001 AND				
7.2	CE (93/42 EEC Directives) or USFDA approved product				
	certificate.				
7.3	Electrical safety conforms to standards for Electrical Safety				
	IEC 60601-2-37 requirements for the basic safety and				
	essential performance of ultrasonic medical diagnostic and				
	monitoring equipment.				
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' complete parts (Including	total a state of the first of			
	Reusable accessories).				
10	Maintenance Service During Warranty Period				
10.1	During the warranty period supplier must ensure preventive				
	maintenance and 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	ST VIL DOMESCIEROD DI C &			
	installation to be communicated to the purchaser in advance,	10 p. P. Nor comp. Gion 22			
10	in detail.				
<b>12</b> 12.1	Documentation				
	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	19 July should fill a Fi			
12.4	number and costing.				
12.4	Certificate of calibration and inspection from factory. must completely fill the Technical Specification Form (TSF). Only Yes/no/all co				

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Tec	hnical Specification of 500mA LF X-Ray Machine	Bidder's	Complian	
5.N.	Purchaser's Specifications X-Ray Machine 500 mA	Yes/No	Ref Docs Page No.	Remarks
	Manufacturer	-	1763 9979	
	Brand	6.450.5	Contraction of the second	
	Type/Model			
	Country of Origin	anger and		
1	Desciption of Functions			
1 1.1	A general purpose X-ray machine 500mA LF with Horizontal Bucky Table.			
2	O metional Doquirements			1.2.5
2.1	It shall be suitable to be used for adult and pediatric patient in general radiography examination and it shall operate on single/three phase AC power supply.		- Inne Arte Mit Bricke	
3	Sector Configurations			1714
3.1	X-ray HT transformer, Control Console, Column Stand HBT Complete Machine with Horizontal Bucky Table and all standard accessories.			
4	The local Specifications	-		
4.1	Radiography rating at least 500mA and 125K vp rating.			
4.2	L E France min 100 and 200mA	and the second		
4.3	Radiography KV 40 to 125 KVp, Variations in steps of 1			
4.4	Exposure time at least 24 step electronic timer from 0.02 to			
4.5	5 seconds Fluoroscopy rating mA 0 to 5mA stepless; KV – 40 to 100 KVp			
4.6	The second of the second of the second secon	-		
4.7	HT transformer with silicon rectifiers supporting single and double tube rotation as required.			
4.8	Display Ky, mA and mAs			
4.9	Little and the section 20 % of input voltage			11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4.10	Power composition 220 single phase to 3 phase 415 volts, 330 KVA 50 HZ maximum allowable line resistance in 415V line is 0.25 ohms			
4.11	Display should be LED based		1 AC	The second
4.12	Must have X-ray Exposure switch		104 Alm	die in
4.13	HBT should come with Bucky Grid	1	Co line	Nº 4
4.14	4 Column Stand should be 6 fit to 7 fit		A the Rui	al Muni Manuale
4.1	5 Shall some with overload protection device.		An mpal	
4.1	6 It shall come with tube overload and overheat protection.		5 No.	Province.
4.1	7 Longitudinal travel: approx. 1750mm.			2017 1.0
4.1	2. Vortical travel: from in the range 630 -1850mm.			
4.1	a history arrested by electromagnetic brakes.			
4.2	the shall not be less than 200 NOU.		0	asani

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S.N.	Purchaser's Specifications	Bidder's Compliance Sheet
4.21	Anode rotating speed: not less than 3000 rpm.	
4.22	Cooling method passive or forced air and/or oil cooling.	
	Collimator	
4.23	Manually adjustable.	
4.24	Manually selectable filters.	
4.25	Light localizer, lamp with timer.	
4.26	Built-in light switch should be provided.	
4.27	Turning angle should be min +/- 45 degree.	
4.28	Halogen lamp.	
1.20	Radiography Patient Table	
4.29	Radiography table shall be fixed height, 4-way floating top	
1.27	type with foot switch control.	Street A
4.30	Come with grid and cassette tray, with grid ratio: not less	
	than 12:1. Grid line number: 40 line/cm. Focus distance:	
	115cm.	to the part of the second of the second
4.31	Cassette size: accept all sizes from cassette 13x18 cm to	
	35x43 cm type.	
4.32	Table top to film distance: approx. 7cm.	
4.33	Table top transverse movement : approx. ±14cm.	
4.35	Table longitudinal movement: approx. $\pm 29$ cm.	
4.36	Table top dimension: approx. 2000 mm x 800 mm.	
4.37	Table movement arrested by electromagnetic brakes.	
	Floor Mounted Bucky Stand	
4.38	Vertical travel: from in the range 460-1700mm.	
4.39	Moving Grid with Grid ratio not less than 12:1. Grid line	
-	number: 40 lines/cm.	the second secon
4.40	Movement arrested by electromagnetic brakes.	
5	Accessories, Spare Parts and Consumables	when we is the application of the second
5.1	Accessories:	Contraction of the state of the
	• Lead apron-01 no.	
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. Bidders must specify the quantity of every item	
(	included in their offer (including items not specified above).	
6	Operating Environment	
6.1	The system offered 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 supply: Should work in 220V to 440V power supply	
7	Standards & Safety Requirements	
1.2		
7.3		
		0.0125
	a than a file	L'alla o
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	NEC No. 104 2011	a name Adminis
7.1 7.2	Must submit ISO 13485/NS-EN ISO 13485 AND GMP Must submit CE approved product certificate 93/47/EC or USFDA approved product certificate. Shall meet:	Anartafaninistrain

		<b>Bidder's Compliance Sheet</b>			
5.N.	<ul> <li>Purchaser's Specifications</li> <li>IEC 60601-1-3 - Part 1: General Requirements for safety         <ul> <li>Collateral Standard: General Requirements for Radiation Protection in Diagnostic X-Ray Equipment.</li> </ul> </li> <li>IEC 60601-2-7 - Part 2-7: Particular Requirements for the Safety of High-Voltage Generators of Diagnostic X- Ray Generators.</li> </ul>				
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.	T Sector			
9	XX/- uno official			a desident and	
9.1	Comprehensive warranty for 1 years after acceptance.		t before i la se	Start Charles	
10	The standard Sorvice During Warranty reliou		TEND IS	The last	
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.	914 A.	1000		
12.2	Service (Technical / Maintenance) manual in English.				
12.3	Didder's must submit original catalogue.				
			chould not h	e written. Page	
Ridder	Certificate of calibration and inspection from factory. must completely fill the Technical Specification Form (TSF). Only Yes/no/ er in the catalogue of all the required parameters must be clearly mention	all compiles	lighted, Failu	re in doing so m	

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