



कोशी प्रदेश सरकार

स्वास्थ्य मन्त्रालय

स्वास्थ्य निर्देशनालय

जिल्ला अस्पताल तेहथुम

तेहथुम, नेपाल

नि. मेडिकल सुपरिटेन्डन्ट

प.सं.: २०८१।८२

च.नं.:

क्याटलग सपिङ्ग विधिबाट स्वास्थ्य सम्बन्धि उपकरण खरिद सम्बन्धी प्रस्ताव आव्हानको सूचना

प्रथम पटक प्रकाशित मिति २०८२।०८।११

सूचना नं. ०१/२०८२/८३/क्याटक

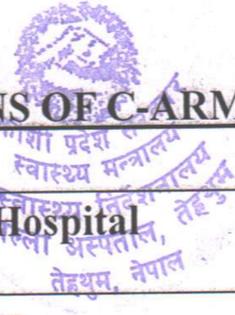
यस जिल्ला अस्पतालको लागि चालु आ.व. २०८२/८३ मा तपशिल बमोजिमको मेडिकल उपकरणहरू सार्वजनिक खरिद नियमावली, २०६४(संसोधन सहित) को नियम ३१(ख) को उपनियम (२) बमोजिम त्यस्तो मेडिकल औजार उपकरण तथा मेसिनरी सामान उत्पादक कम्पनी वा सोको आधिकारीक विक्रेताहरू विच मात्र प्रतिस्पर्धा गराउने(क्याटलग सपिङ्ग) विधिबाट खरिद गर्नु पर्ने भएकाले इच्छुक ईजाजतपत्र प्राप्त उत्पादक कम्पनी, त्यसको अधिकृत विक्रेता/ आधिकारिक विक्रेताले फर्म/कम्पनी दर्ता, एजेन्सी दर्ता प्रमाणपत्र, Letter of Authorization, मु.अ.कर दर्ता तथा आ.व. २०८२/२०८३ को कर चुक्ता प्रमाणपत्रको प्रतिलिपिहरू समावेश गरी मेडिकल औजार उपकरण तथा मेसिनरी सामानको आधिकारिक स्पेशिफिकेशन, गुणस्तर, मूल्य र सुविधा सहितको विवरण (क्याटलग/ब्रोसर) संलग्न राखि यो सूचना प्रकाशित भएको मितिले १०(दश) दिन(सार्वजनिक विदा परेमा त्यसको लगत्तै कार्यालय खुलेको दिन)को १२:०० बजे भित्र सिलबन्दी प्रस्ताव दर्ता गराउनुहुन सम्बन्धित उत्पादक वा आधिकारिक विक्रेताहरूको जानकारीको लागि यो सूचना प्रकाशित गरिएको छ। नियमानुसार समयभित्र पेश हुन आएका प्रस्ताव फारमहरू सोही दिनको २:०० बजे खोल्ने छ। थप जानकारीको लागि अस्पतालको फोन नं. ०२६-४६०१८८ वा अस्पताल प्रशासनमा सम्पर्क राख्न हुन अनुरोध छ।

तपशिल

क्र.सं.	सामानको विवरण	ईकाइ	संख्या	कैफियत
१	C-Arm मेसिन	सेट	१ (एक) थान	स्पेशिफिकेशन अस्पतालको सूचनापाटी तथा स्वास्थ्य मन्त्रालय, कोशी प्रदेश, विराटनगरको
२	Auto Clave मेसिन	सेट	१ (एक) थान	WEB साइट https://moh.koshi.gov.np/ मा राखिएको छ।

फोन नं. ०२४-४६०१८८ ईमेल:-dhterhathum@gmail.com

SPECIFICATIONS OF C-ARM Machine



S.N.	Purchaser's Specifications (District Hospital Terhathum FY: -082/83)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Mobile C-Arm with Image Intensifier			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
1.1	Microprocessor controlled C-arm machine with Image Intensifier and 1K X 1K imaging chain should provide the excellent image quality at low radiation, ideally suited for general surgeries in many application fields and special application such as orthopedics, urology, Gastroenterology, pain management, Spine fixation.			
2	Operational Requirements			
2.1	It shall be suitable to be used for adult and pediatric patients in general radiography examination and it shall operate on single phase AC power supply.			
3	System Configuration			
3.1	A portable mobile trolley C-Arm machine with image intensifier.			
4	Technical Specifications			
4.1	IMAGE INTENSIFIER & CAMERA			
	a. Input field size (approx.) 9 inches (Triple field)			
	b. Grid on the entrance field: circular grid			
	c. Digital high resolution 1k X 1k CMOS camera, with at approx. 1.6 MP, 10 bits, 15 fps / 25 fps and high resolution 1024 x 1024 pixel.			
4.2	Monitor			
a	Min.32 inch single- or 17-inch dual monitor or more High Resolution (1920 x 1080) Full HD LED Monitor with Auto Clean, Active Back-light control and contrast booster with superb fluoroscopic viewing monitor mounted on mobile Trolley should be provided.			
4.3	X-Ray Tube			

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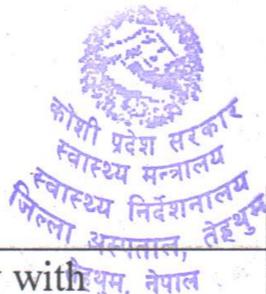
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a	Monoblock tube head having dual focus stationary anode X-Ray tube of focal spot 0.6mm (small focus) & large focus (1.5mm) should be provided			
b	Anode Heat Storage capacity should be 42KHU or more.			
c	System should have laser based aiming tools to reduce exposure for doctors and patients.			
d	Collimator: fixed			
4.4	Control Unit:			
a	A very compact, soft touch control panel with graphical color TFT display of min. 5-inch size on which KV, mAs, Fluoro mA, and other indicators can be displayed			
b	Should have 2 step remote exposure switch.			
c	Console Panel should have following functions and indications.			
	<ul style="list-style-type: none"> • Machine ON/OFF switch. • Fluoro timer reset Switch (For reinitiate the exposure after 300 sec fluoro timer) • KV and mAs increase and decrease switches. • X-Ray ON Switch with indicators. • Switches for up/down movement of "C" on both side of panel. • Realtime temperature display on screen. • Exposure lock switch. 			
4.5	X ray Generator			
	a. High Frequency not less than 40 KHz.			
	b. Output power should be 3.5KW or more.			
	c. Fluoro & Rad. Kv 40 to 110 KV.			
	d. Max. mA: 80mA or more.			
	e. Radiographic mAs: 0.4 to 200mAs			
	f. Pulse Fluoroscopic mA(peak): - <ul style="list-style-type: none"> • 0.1 to 3mA (Fluoro Mode) • up to 8mA (HD Mode) 			
4.6	Memory system			
a	Should include Memory system			
4.7	Image Acquisition			
a	Image processing software with real time image capturing, storage, and display in 1K X 1K format.			
b	Unlimited data storage with high resolution, 1K X 1K format.			

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c	1000 runs of 100 frames image memory with Unlimited patient creation Storage at full resolution 1024 x 1024.			
d	Single/dual monitor support for enhanced Last Image Hold.			
e	System should have features of post image enhancements.			
f	Optimal dose indicator algorithm in manual X-ray mode to avoid x-ray adjustment.			
g	Should have feature of video rotation angles.			
h	Image Rotation, Image Mirror support			
i	Should have features of Negative Image, Contrast adjustment, Sharpness, Brightness, Advance and Ultra Enhancements			
j	Must have Customizable key map configurations			
k	Dedicated Patient Mode (Without Registration), add/modify information.			
l	Image Format Support BMP, JPEG, PNG,etc.			
m	Real time Horizontal and Vertical Video Flip functions.			
n	Should have inbuilt APR system.			
o	System should auto Save Image after exposure			
p	System should store Patient Image Counter and patient name.			
q	Real time digital zoom facilities.			
r	Real time noise with reduction with Averaging			
s	Real time Image Flip function Horizontal & Vertical.			
t	Import Patient Data			
4.8	Storage			
a	System should able to store image more then 10000 images.			
b	Fluoro saving as per user need			
c	Last image hold saving as per user need			
4.9	C-arm Movements (approx.)			

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a	Fully counter balanced movement			
b	Rotation: ± 180 or better			
c	Arc orbital movement: 120 or more			
d	Horizontal movement: 200mm or more			
e	Vertical movement: 400 or more			
f	Clearance: 750 mm or more			
g	Swivel range: $\pm 12.5^\circ$ or better			
h	SID: 930 mm or more			
i	System should have features of locks for all the manual movements of C-arm			
j	Should have emergency switch to shutdown entire machine operations.			
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.			
5.2	Accessories:			
	Lead apron-03 no Thyroid shield-03 no Lead eyewear-03 no			
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 Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply requirements			
a	The machine should be operable on single phase 220 – 240 VAC, 50Hz with appropriate plug for X-ray generator fitted with appropriate plug for other units. The power cable must be at least 3 meters in length.			
b	Electronic voltage stabilizer should be provided			
c	UPS for power backup of the software should be provided.			
7	Standards and Safety Requirements			
7.1	Must submit ISO13485 for Medical Devices AND			
7.2	Must submit CE or USFDA approved product certificate.			
7.3	The product should be approved by AERB / BIS.			
8	User Training			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	Warranty			

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9.1	Comprehensive warranty for 3 years should be provided and 3 years of maintenance contract.			
10	Maintenance Service During Warranty Period			
10	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			
11	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	User (Operating) manual in English.			
12	Service (Technical / Maintenance) manual in English.			
12	Manufacturer authorization letter			

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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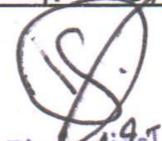
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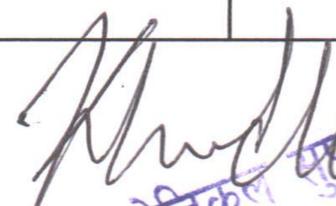
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Medical Waste treatment AUTOCLAVE, HORIZONTAL (200 LTR)

S.N.	Purchaser's Specifications(Terhathum Hospital FY:82/83) Autoclave, Horizontal (200 Litres)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
	Pre-vacuum or high vacuum medical waste treatment autoclave			
2	Operational Requirements			
	Pre-vacuum or high vacuum medical waste treatment autoclave required			
3	System Configuration			
	Autoclave, Horizontal with complete with accessories.			
4	Technical Specifications			
A	The autoclave shall be operated by controls to permit automatic operation using multiple pre-set operating cycles. Must be possible for operator to alter pre-set cycle parameters/add new pre-set operating cycles.			
B	Capacity: 200L or more.			
C	Industrial immersion type water heater to generate steam within a reasonable period of time on 2/3 phase 220/440V 50 HZ ac supply.			
D	Operating pressure: 2 Bar (30 psig/2280 mmHg) or higher			
E	Operating temperature: 121°C or more.			
	Material of Construction:			
	a Outer/Inner chamber, Jacket, Door: SS 304 .			
	b Steam generator: Non corrosive SS /Chromium plated Brass.			
	c Heater Plate: Brass/Stainless steel.			
F				
G	Shall have temperature, pressure and vacuum gauges. Etc			
H	Displays indicating- door locked, operation in progress, major operating cycle stages, and cycle complete; as well as fault condition			
	Safety Features:			
	a Self-locking safety door – cannot be opened when Chamber is under pressure.			
I	b Gauge glass with safety valves.			
	c Heat resistant door silicon gasket for steam tight sealing.			
J	Pre-set operating cycle for waste management: Autoclave shall have programmed cycles for disinfection of infectious waste, and for liquid waste.			
K	Autoclave shall have pre-set operating cycle for leak testing.			
L	Overpressure sensor linked to a pressure relief safety valve plus a rupture disc or equivalent pressure limiting device to keep the pressure below the maximum allowable pressure			
M	Air removed during the vacuum cycle must be decontaminated by means of a HEPA filter,HEPA with activated carbon filtration, steam treatment, or other equivalent method to prevent release of pathogenic aerosols			


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S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Autoclave, Horizontal (200 Litres)			
6	Shall Meets STAATT Level III microbial inactivation efficacy criteria at specified operating parameters as shown by challenge test results from an independent third party.			
7	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.			
B	Power supply: 220 – 240 VAC or 440V-460V, 50Hz fitted with appropriate plug.			
8	Standards and Safety Requirements			
A	This unit must be certified to meet ISO13485 , EN 13445 or ASME BPV Code Section VIII, or equivalent			
B	Submit the IEC 61010-2-040 or equivalent certificate for electrical safety.			
9	User/Technician Training			
	Must provide user/technician training (including how to use and maintain the equipment).			
10	Warranty			
	Comprehensive warranty for 2 years from acceptance and 3 years maintenance contract.			
11	Maintenance Service During Warranty Period			
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
12	Installation and Commissioning			
13	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.			
14	Documentation			
A	User (Operating) manual in English			
B	List of important spare parts and accessories with their part number and costing.			
C	Certificate of calibration and inspection from factory for filter integrity, proper air flow, flow rate demonstrated and traceable etc.			

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