



कालिका गाउँपालिका

गाउँ कार्यपालिकाको कार्यालय
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गाउँ कार्यपालिकाको कार्यालय
देवडा, रसुवा, धौबुङ्ग रसुवा
३ नं. प्रदेश, नेपाल
२०७३

जस्यपुनः
वाचस्पति सुनुवार
१ नं. प्रदेश, नेपाल
मिति २०७६/३/२

प.सं

च.नं :

उत्पादक वा अधिकृत बिक्रेताद्वारा निर्धारित दरमा (क्याटलग सपिड) X-ray खरिद गर्ने सम्बन्धी ७ (सात)दिने सूचना

कालिका गाउँपालिका अन्तर्गत कालिका सामुदायिक स्वास्थ्य इकाई वर्थिङ सेन्टरका लागी एक थान ३०० एम्पायर को म्यानुअल X-Ray मेसिन क्याटलग सपिडको माध्यम बाट खरिद गर्नुपर्ने भएकोले योग्यता पुगेका इच्छुक आधिकारिक बिक्रेता तथा कम्पनिहरुले आजको मिति बाट ७ (सात) दिन भित्र आफ्नो आधिकारिक मूल्य, छुट तथा कर समेत उल्लेख गरी उत्पादक वा अधिकृत बिक्रेताद्वारा निर्धारित दरमा (क्याटलग सपिड) खरिद गर्ने कार्यविधि २०७४ अनुसार दूर्वानि, जडान तथा संचालन गर्ने सम्मको जिम्मेवारी र वारेन्ट, ग्यारन्ट सहित खुल्नेगरी सिलबन्दी प्रस्ताव पेश गर्नुहुन यो पुन सूचना प्रकाशित गरिन्छ । आवश्यक टेक्निकल स्पेसिफिकेसन कालिका गाउँपालिकाको वेबसाइट www.kalikamunrasuwa.gov.np मा राखिएको व्यहोरा समेत सुचित गरिन्छ ।

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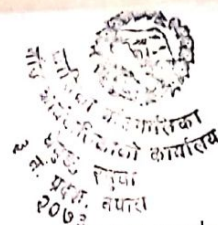
X-ray Machine 300mA

Approved Date:01.2013

S No.	Purchaser's Specifications
	X-ray Machine 300mA
	Manufacturer
	Brand
	Type/Model
	Country of Origin
1	Description of Functions
1.1	A general X-ray machine 300mA with fixed height table.
2	Operational Requirements
2.1	It shall be suitable to be used for adult and paediatric patients in general radiography examination and it shall operate on single phase AC power supply or three phase AC power supply.
3	System Configurations
3.1	X-ray Generator, 1 unit.
3.2	Control Console, 1 unit.
3.3	Radiography patient table, 1 unit.
3.4	Floor mounted bucky stand, 1 unit.
3.5	Floor mounted tube stand & X-ray tube, 1 unit.
3.6	Bidder shall indicate brand and model information here and provide technical data document for all major components specified above.
4	Technical Specifications
4.1	X-ray Generator
4.2	Microprocessor based, high frequency inverter generator, the generator shall have at least 40KHz.
4.3	Generator output: not less than 30 KW.
4.4	Radiographic voltage range: 40 - 125KV with 1KV adjustment.
4.5	Radiographic mA: 10 - 300mA in 10 steps.
4.6	mAs range: 0.01 - 500 mAs.
4.7	Radiographic timing: min. 0.001sec (1msec).
4.8	Anatomical Programmable Radiographic mode shall be available.
4.9	Automatic Exposure Control shall be available.
4.10	Overload protection device shall be provided.
4.11	Power supply: Single phase 220-240V 50/60Hz or 3 phase, 380-415V 50/60Hz.
4.12	X-Ray Tube
4.13	X-ray tube rotating: $\pm 120^\circ$.
4.14	Large focus not more than 1.2 mm.
4.15	Small focus not more than 0.6 mm.
4.16	Maximum tube voltage 125 KV. Maximum tube output shall match with the generator output of not less than 30 KW.
4.17	Filtration: min 2.5mm Al equivalent.
4.18	Cooling method passive or forced air and/or oil cooling.
4.19	Anode rotating speed: not less than 3000rpm.
4.20	Anode heat capacity shall not be less than 140 KHU.
4.21	Radiography Patient Table
4.22	Radiography table shall be fixed height, 4-way floating top type with foot switch control.

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4.23	Come with grid and cassette tray, with grid ratio: not less than 12:1. Grid line number: 40 line/cm. Focus distance: 115cm.
4.24	Cassette size: accept all sizes from cassette 13x18 cm to 35x43 cm type.
4.25	Table top to film distance: approx. 7cm.
4.26	Table top transverse movement : approx. ± 14 cm.
4.27	Table longitudinal movement: approx. ± 29 cm.
4.28	Table top dimension: approx. 2000 mm x 800 mm.
4.29	Table movement arrested by electromagnetic brakes.
4.30	Floor Mounted Bucky Stand
4.31	Vertical travel: from in the range 460-1700mm.
4.32	Moving Grid with Grid ratio not less than 12:1. Grid line number: 40 lines/cm.
4.33	Movement arrested by electromagnetic brakes.
4.34	Floor Mounted Tube Stand
4.35	Longitudinal travel: approx. 1750mm.
4.36	Vertical travel: from in the range 630 -1850mm.
4.37	Movement arrested by electromagnetic brakes.
4.38	Rotation of tube arm around vertical axis: 180°; lockable at 0° to $\pm 90^\circ$.
4.39	Collimator
4.40	Manually adjustable.
4.41	Manually selectable filters.
4.42	Light localizer, lamp with timer.
4.43	Built-in light switch should be provided.
4.44	Turning angle should be min ± 45 degree.
4.45	Halogen lamp.
4.46	Control Console
4.47	Digital Display.
4.48	Minimum 3 Point Exposure Technique.
4.49	Status display, error display.
5	Accessories, Spare Parts and Consumables
5.1	Accessories: 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: 220 – 240 VAC, 50Hz Single Phase or 380-415VAC 3 phase 50Hz fitted with appropriate plug for X-ray generator fitted with appropriate plug for other units. The power cable must be at least 3 metres in length.
7	Standards & 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.
7.3	Shall meet: - IEC 60601-1-3 - Part 1: General Requirements for safety - Collateral Standard: General Requirements for Radiation Protection in Diagnostic X-Ray Equipment. - IEC 60601-2-7 - Part 2-7: Particular Requirements for the Safety of High-Voltage Generators of Diagnostic X-Ray Generators.

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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 2 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	List of important spare parts and accessories with their part numbers and costing.
12.4	Certificate of calibration and inspection from factory.

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X-ray Dark Room Accessories

S.N.	Purchaser's Specifications
	X-ray Dark Room Accessories
	Manufacturer
	Brand
	Type / Model
	Country of Origin
1	Description of Function
1.1	X-Ray dark room accessories set for use with X-ray machine.
2	Operational Requirements
2.1	The dark room accessories are essential for smooth operation of the x-ray machine. Dark room accessories shall include X-ray cassettes, X-ray hangers, Processing tank, Lead apron, Lead letters, Dark room safe lamp, Patient position pad, X-ray view box, Grids, Gonad shield, and Chest stand.
3	System Configuration
3.1	The system consists of: • X-ray cassettes of different sizes • X-ray hangers of different sizes • Processing tank for films • Lead letters • X-ray view box • Lead apron • Patient position pad • Safe light • Grids • Chest stand • Gonad Shield
4	Technical Specifications
4.1	X-ray Cassettes: X-ray cassettes, green emitting intensifying screen high speed: • Cassette size 20x24 cm (8 x 10"): 2 Pieces. • Cassette size 24x30 cm. (10 x 12"): 2 Pieces. • Cassette size 30x37 cm (12 x 15"): 4 Pieces. • Cassette size 35x43 cm (14 x 17"): 2 Pieces.
4.2	X-ray Hangers: X-ray hangers with stainless steel clip: • Hanger size 20x24 cm (8 x 10"): 6 Pieces. • Hanger size 24x30 cm (10 x 12"): 6 Pieces. • Hanger size 30x37 cm (12 x 15"): 6 Pieces. • Hanger size 35x43 cm (14 x 17"): 6 Pieces.
4.3	X-ray Processing Tanks: Stainless steel X-ray processing tank for films up to 35x43cm (14 x 17"), approximately 13 litres capacity: 2 Pieces.
4.4	Lead letters: • Lead letters A-Z: 1 Set. • Lead figures 0-9 with R & L letter: 10 Set.
4.5	X-ray View Box with LED illumination: • X-ray view box for single film, size 35x43cm (14x17"): 1 Piece. • X-ray view box for double film: 1 Piece.

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4.6	Lead Apron with Stand: - Lead apron coat type 0.25mm lead with hanger: 1 Piece. - Double sided lead apron 0.25mm lead: 1 Piece. - Stainless steel lead apron stand for 5 aprons, floor model: 1 Piece.
4.7	Patient Position Pad: X-ray radiolucent patient position pad: 4 Pieces.
4.8	Safe light: Dark room safe lamp: 1 Piece.
4.9	Grids: Stationary grids ratio > 6:1 & gridlines > 80/inch: 2 Pieces.
4.10	Chest Stand: X-ray chest stand, floor model: 1 Pieces
4.11	Gonad Shield: Children gonad shield, (male/female): 1 set each.
5	Accessories, spares and consumables
5.1	Not applicable.
6	Operating Environment
6.1	The product offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.
6.1	Dark room safe lamp shall operate on 220-240VAC 50Hz power supply, 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 ISO 13485:2003/AC: 2007.
8	User Training
8.1	Not applicable
9	Warranty
9.1	Warranty for 1 year.
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
12.1	User's (Operating) manual shall supply in English.

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