



वित्तमोड नगरपालिका

नगर कार्यपालिकाको कार्यालय

फोन नं. ०२३-५४०२४४
०२३-५४६२००



पत्र सं. :- २०७८/०७९

च.नं. :-

क्याटलग प्रस्ताव विधी बाट मेडिकल औजार उपकरण तथा मेसिनरी सामानहरू खरिद सम्बन्धी प्रस्ताव आव्हानको सूचना

प्रथम पटक प्रकाशित मिति २०७९/०३/१३

यस कार्यालयको लागी चालु आ.व. २०७८/०७९ बार्षिक स्वीकृत कार्यक्रम अनुसार तपशिल बमोजिमको मेडिकल औजार उपकरण तथा मेसिनरी सामानहरू खरिद गर्नुपर्ने भएकाले सार्वजनिक खरिद ऐन २०६३ को दफा ८ को तथा सार्वजनिक खरिद नियमावली २०६४ को नियम ३१ख. उपनियम (२) बमोजिम त्यस्तो मेडिकल औजार उपकरण तथा मेसिनरी सामान उत्पादक कम्पनी वा सो को आधिकारीक विक्रेताहरू विच मात्र प्रतिस्पर्धा गराउने (क्याटलग सपिङ्ग) विधीबाट खरिद गराउनुपर्ने भएकोले इच्छुक इजाजत प्राप्त उत्पादक वा सो को आधिकारीक विक्रेता कम्पनी/फर्म दर्ता, मु.अ.कर दर्ता प्रमाणपत्र र आ.व.२०७७/०७८ को आयकर चुक्ता प्रमाणपत्रको प्रमाणित प्रतिलिपीहरू समावेश गरी मेडिकल औजार उपकरण तथा मेसिनरी सामानको आधिकारीक स्पेसिफिकेशन, गुणस्तर, मूल्य र सुविधा सहितको विवरण (क्याटलग वा ब्रोसर) तथा Letter of Authorization समेत संमलन राखी यो सूचना प्रकाशित भएको. मितिले ७ औ दिनको १२:०० बजेभित्र यस कार्यालयमा सिलबन्दी प्रस्ताव दर्ता गराउनुहुन जानकारी गराईन्छ । नियमानुसार समय भित्र पेश हुन आएका सिलबन्दी प्रस्ताव फारमहरू सोही दिनको २:०० बजे खोल्ने छ । थप जानकारीको लागी यस कार्यालयको फोन नं. ०२३-५४०२४४ मा सम्पर्क राख्न सकिने छ ।

विवरण

सि.न.	विवरण	सख्या	स्पेसिफिकेशन	कैफियत
१	Colour Doppler Video X-Ray 4D proof	१	कार्यालयबाट स्वीकृत भएको संक्षिप्त Technical Specification कार्यालयको सूचना पाटी तथा Website : www.birtamodmun.gov.np मा उपलब्ध छ ।	संक्षिप्त विवरणमा उल्लेख नभएका कुराहरू स्वीकृत Technical Specification बमोजिम हुने छ ।
२	A. DR System Double Tray	१		
	B. Air Disinfector 2 way	१		
३	A. X-Ray Machine 500MA	१		
	B. Antipartum Monitor	१		
	C. Electric- Hydraulic Delivery Table	१		
	D. Air Condition (AC) 1.5 Ton	२		

विमोद कुमार न्यौपाने
प्रमुख प्रशासकीय अधिकृत



Technical Specification for Flat Panel Detector System
Purchaser's Specifications (BTM municipality.
FY:78/79)

प्रमुख प्रशासकीय अधिकृत
नितोद कुमार न्यौपाने

S.N.	Purchaser's Specifications (BTM municipality. FY:78/79)	Bidder's Compliance Sheet		
		yes/no	Page no. in catalogue	Remarks
	Flat panel Detector (DR) with Workstation			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
	A digital detector with automatic exposure detection (AED) provides a fast and easy way for radiography facilities to benefit from high-quality digital imaging using any X-ray equipment. This technique uses x-ray sensitive plates to capture data during object examination, which is immediately transferred to a computer without the use of an intermediate cassette.			
2	Operational Requirements			
	An DR imaging plate to capture X-Ray exposure, transfer of image to PC in real-time, image processing workstation and an image film printer.			
3	System Configuration			
	Flat Panel Detector System- Wireless, Workstation with image processing software & Dry Imager.			
4	Technical Specification:			
A	Flat Panel Detector System			
	The Flat Panel should be a Retrofit Solution and a capable to work with any of the X-Ray available in Department.			
b	Shall be Amorphous Silicon (ASi) flat panel detector			
c	Shall have Cesium Iodide (CSI) Scintillator			

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Technical Specification for Flat Panel Detector System



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S.N.	Purchaser's Specifications(BTM municipality. FY:78/79)	Bidder's Compliance Sheet		
		yes/no	Page no. in catlog ue	Remark s
	Flat panel Detector (DR) with Workstation			
d	Shal have Lossless AED (automatic exposure detection)			
e	Portable wireless detector size: Approx. 14 X 17 inches. (Please indicate the effective area of the unit) and all standard accessories.			
f	The detector should be light weight .(< 3Kg)			
g	Detector should have protected against spraying of water and should have IPX ratings			
h	Should have spatial resolution of Approx. 3.3 lines/mm or better			
i	The resolution parameters or pixel spacing must be 125 micron or less.			
k	Should have image depth of Approx. 14 bit or better			
l	The Detector should have Detachable Lithium Polymer Technology battery and should be provided with two extra battery along with battery charger.			
m	The Detector should have detector wired charge directly or via replaceable system (dock).			
n	The battery charger should have facility to charge atleast one batteries simultaneously,battery life should be minimum 5hrs or 300 images per charge or more.			
o	The Detector should be able to withstand surface load of 150kg or more			
p	Detector quantum efficiency(D.Q.E)should be >50%			

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Technical Specification for Flat Panel Detector System



विनोद कुमार शीवा
मुख्य प्रशासकीय अधिकृत

S.N.	Purchaser's Specifications(BTM municipality. FY:78/79)	Bidder's Compliance Sheet		
		yes/no	Page no. in catalogue	Remarks
	Flat panel Detector (DR) with Workstation			
p	Detector should have 100 images or more storage facility.			
q	Easy switch from sleep mode to acquisition mode for better battery performance.			
r	Software should have DICOM & PACS connectivity as a standard feature.			
S	DR System should be CE and USFDA approved			
B	Workstation:			
a	A Branded System with CPU – Latest Intel i5 or i7, RAM – 8GB, HDD – 1000GB, OS Genuine Window 7/10 and 19" (1080P) monitor. OR, Company Supplied Branded System.			
b	A fully liscenced DR image processing software.			
C	Dry laser/Imager:			
a	The system must be a Dry laser/Imager 2 online film tray system.			
b	Printer must be able to print atleast 50 sheets or more per hour for film size 4"X17" film.			
c	The system must be DICOM 3.0 Print Service Class Provider, allowing minimum of 10 associations at a time.			
d	The system must have a spatial resolution of 500 PPI / DPI (minimum) or more for all sizes printed.			
e	The system must have contrast resolution of 14 bits / pixel or more			

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Technical Specification for Flat Panel Detector



बिनाद कुमार लोपाने
प्रमुख प्रशासक अधिकृत

S.N.	Purchaser's Specifications(BTM municipality. FY:78/79)	Bidder's Compliance Sheet		
		yes/no	Page no. in catlog ue	Remark s
	Flat panel Detector (DR) with Workstation			
	The system must have at least two online film sizes, and should be capable to print on any of the 8" x 10", 10" x 12", 14" x 14", 14" x 17" sizes. All two film input trays should be freely configurable at user level for all the mentioned film sizes.			
	g System should be CE and USFDA approved.			
5	Accessories and spare parts 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. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
6	Operating Environment:			
a	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.			
b	UPS of suitable rating for at least 30 min. backup shall be supplied			
7	User/Technician Training:			
	Must provide user training (including how to use and maintain the equipment).			
8	Warranty:			
a	Comprehensive warranty for 2 years after acceptance.			
b	During the warranty period supplier must ensure planned preventive maintenance (PPM) in at least every six month along with Corrective/breakdown maintenance whenever required.			
9	Installation and Commissioning:			

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Technical Specification for Flat Panel Detector System



विनीत कुमार न्यौपाने
मुख्य प्रशासकीय अधिकृत

S.N.	Purchaser's Specifications(BTM municipality. FY:78/79)	Bidder's Compliance Sheet		
		yes/no	Page no. in catalogue	Remarks
	Flat panel Detector (DR) with Workstation			
	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.			
10	Documentation:			
a	User (Operating) manual in English.			
b	Service (Technical/ Maintenance) manual in English.			
c	List of important spare parts and accessories with their parts.			

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बिनोद कुमार न्यौपाने
मुख्य प्रशासकीय अधिकृत

TECHNICAL SPECIFICATION FOR X-RAY 500 MA

S. N.	Purchaser's Specifications(BTM municipality. F/Y 78/79)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	X-ray, 500ma			
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
1	Description of Functions			
1.1	A general purpose X-ray machine for routine X-ray examinations at healthcare facilities.			
2	Operational Requirements			
2.1	It shall be suitable to be used for adult and paediatric patients in general Radiography examination.			
3	System Configurations			
3.1	X-ray Generator, 1 unit			
3.2	X-Ray tube & tube support system, 1 unit			
3.3	Radiographic patient table, 1 unit			
3.4	Floor mounted bucky stand, 1 unit			
4	Technical Specifications			
I	X-ray Generator: Bidder shall indicate brand and model information here and provide technical data document for X-ray generator offered			
4.1	Line frequency or high frequency generator , the generator shall have approx. 40kHz.			
4.2	Generator Output: approx. 40 kW (500mA at 125kV)			
4.3	Radiographic voltage: approx. 40 kV to 125kV, in 1kV step or better			

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प्रमुख प्रशासकीय अधिकृत
Bulder's Compliance
Sheet

S. N.	Purchaser's Specifications(BTM, municipality. F/Y 78/79)	Yes/No	Page No. in Catalogue	Remarks
	X-ray,500ma			
4.4	Radiographic current: 40 to 500mA or better			
4.5	Exposure time: 0.01sec(1msec) - 5sec or better			
4.7	Shall come with overload protection device.			
4.8	Power supply: 3 phase, 380-415V 50/60Hz or single phase			
II	X-Ray Tube:(approx.)			
4.1	X-ray tube rotating: +/-120°.			
4.11	Large focus not more than 1.2 mm.			
4.12	Small focus not more than 0.6 mm.			
4.14	Filtration: min 2.5mm Al equivalent.			
4.15	Cooling method passive or forced air and/or oil cooling.			
4.16	Anode heat capacity shall be atleast 146 KHU.			
III	Radiography Patient Table:(approx.)			
4.18	Radiography table shall be fixed height or height adjustable, 4-way floating top type with foot switch control or sensor control			
4.19	Come with grid and cassette tray, with grid ratio: not less than 10:1. Grid line number: 40 line/cm. Focus distance: 115cm.			
4.2	Cassette size: accept all sizes from cassette 5"x7" cm to 14"x17" type.			
4.21	Radiography table shall be fixed height of about 60cm.			
4.22	Table top to film distance: approx. 6cm.			
4.23	Table top transverse movement ; approx. ±14cm.			

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विनोद कुमार न्यौपाने
मुख्य प्रशासकीय अधिकृत

S. N.	Purchaser's Specifications (BTM Municipality, F/Y 78/79)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	X-ray, 500ma			
4.24	Table longitudinal movement : approx. ± 29 cm.			
4.25	Table top dimension: approx. 2000 mm x 800 mm.			
4.26	Shall come with a three-field AEC or equivalent			
4.27	Table movement arrested by electromagnetic brakes or manual brakes.			
IV	Floor Mounted Bucky Stand:(approx.)			
4.28	Vertical travel: from 460-1700mm or in the range.			
4.29	Moving Grid with Grid ratio not less than 10:1. Grid line number: 40 lines/cm.			
4.3	Shall come with Automatic Exposure Control for vertical bucky exposures.			
4.31	Cassette size: accept all sizes from 5"x7" to 14"x17".			
4.32	Movement arrested by electromagnetic brakes.			
V	Floor Mounted Tube Stand:(approx.)			
4.33	Longitudinal travel: approx. 1750mm.			
4.34	Vertical travel: from 630 -1850mm or in the range.			
4.35	Movement arrested by electromagnetic brakes or manual brakes.			
4.36	Rotation of tube arm around vertical axis: 180° ; lockable at 0° to $\pm 90^{\circ}$.			
VI	Collimator:			
4.37	Manually adjustable.			

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S. N.	Purchaser's Specifications (B/M Municipality, F/Y 78/79)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	X-ray, 500ma			
4.38	Manually selectable filters adds advantage.			
4.39	Light localizer with timer controlled light.			
4.4	Built-in light switch should be provided.			
4.41	Turning angle should be min +/- 45 degree.			
4.42	Halogen lamp.			
VII	Control Console:			
4.43	Digital Display.			
4.44	Minimum 3 Point Exposure Technique.			
4.45	Status display, error display.			
5	Accessories, Spare Parts and Consumables			
	Accessories:			
5.1	• Lead apron, light weight with Lead equivalence 2mm-01 nos.			
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.			

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मुख्य प्रशासकीय अधिकृत

S. N.	Purchaser's Specification (Municipality, F/Y 78/79)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	X-ray, 500ma			
6.2	Power supply: 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 ISO 13485:2003/AC: 2007 AND			
7.2	CE (93/42 EEC Directives) or AERB OR 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 2 years from 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			

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बिनोद कुमार न्यौपाने
ग्राम स्वशासकीय अधिकृत

S. N.	Purchaser's Specifications (B&M Municipality, F/Y 78/79)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	X-ray, 500ma			
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.			

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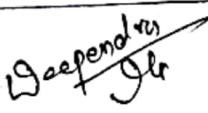


विनोद कुमार न्यौपाने
प्रमुख प्रशासकीय अधिकृत

Technical Specification for CTG Machine		
S.No.	Purchaser's Specification	Yes/No/ Remarks If any
	Manufacturer:	
	Brand :	
	Type/Model:	
	Country of Origin:	
1	Description of Functions:	
1.1	FHR, TOCO, FM and activity curve of fetus can be monitored.	
1.2	Display of fetal movement count should be available.	
2	System and Operational Requirement	
2.1	FHR, TOCO, Fetal movement features should be available.	
2.2	152mm inbuilt printer	
2.3	Inbuilt batter	
2.4	12.1 inch high resolution LCD display	
2.4	Programmable alarm on probe off- position.	
3	Technical Requirements:	
	FHR features shall be as:	
3.1	Ultrasound frequency: 1 Mhz +/- 10% impluse wave	
3.2	Ultrasound input intensity: <10 mW/cm ²	
3.3	Range: 50-240 bpm	
3.4	Accuracy: +/- 1 bpm	
3.5	Alarm: Max: 70-21- bpm, Tolerance: +/-5% Min: 60-200 bpm, Tolerance: +/-5%	
	TOCO	
3.6	Measurement range: 0-100%	
3.7	Resolution tolerance: 1%	
3.8	Pressure tolerance: \leq +/-8%	
3.9	Zero- mode: Manual	

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	Fetal Movement	
3.10	Count Mode: Manual, automatic (with automatic fetal movement)	
3.11	Printer: Thermal	
3.12	Printing paper type: Z- type thermal paper	
3.13	paper width: 152mm	
3.14	Sweep speed: 1cm/min, cm/min, 3cm/min, 25mm/sec, quick recall printing	
4	User Training	
4.1	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.	
5	Power requirement:	
5.1	100-240 VAC, 50/60 Hz	
6	Warranty	
6.1	Warranty for 1 years after acceptance.	
7	Maintenance Service During Warranty Period	
7.1	Preventive and corrective maintenance services during warranty period shall be included.	
8	Installation and Commissioning	
8.1	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.	
9	Documentation	
9.1	The bidder should compulsorily fill the technical specification tender form and clearly mention the Manufacturer, Brand, Model and Country of Origin.	
9.2	User (Operating) Service (Technical / Maintenance) manual in English manual in English	
9.3	CE certified product	


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Technical Specification for Cart Based Ultrasound machine		Bidder's Compliance Sheet		
S.No.	Purchaser's Specification	Yes/No	Page no. in Catalogue	Remarks
	Ultrasound Machine			
	Manufacturer:			
	Brand :			
	Type/Model:			
	Country of Origin:			
1	Description of Functions:			
1.1	It is Fully Digital Cart Based Color Doppler Ultrasound DICOM compatible with advance application for MSK, and General Ultrasound including Abdomen, Vascular			
2	System and Operational Requirement			
2.1	Should have Windows Operating System or equivalent type			
2.2	Monitor size should be Minimum 19 inch, Resolution: 1280x1024 pixel or better.			
2.3	System should have high resolution touch panel which is minimum 10 inch.			
2.4	System should be user-friendly to operate and should be Compact enough to transport			
2.5	System should be integrated one-box design with all spare parts of main unit in one box for easy & fast maintenance			
3	Technical Requirements:			
3.1	Imaging modes: B- Mode, M- Mode, Color M- Mode, Color Doppler imaging, Power Doppler Imaging and directional PDI			
3.2	Pulse Wave Doppler, CW Doppler, Harmonic Imaging, Tissue Doppler imaging, Panoramic Imaging			
3.3	System should have at least 4 active probe ports with capability of connecting any of probes in any port			
3.4	The System should support broadband and multi frequency probes spanning a frequency of approx 1.5-17 MHz			

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3.5	The Systems Shall be compatible with 4D functions			
3.6	The Systems Shall have following Features:			
a	Must have dual-screen function, the image can be shown both on the monitor and the touch panel and can use the touch panel to zoom in and out			
b	Trapezoid for B image mode			
c	Steer scanning for Linear probes			
d	Intelligent Doppler & Intelligent Focus			
e	Extended Field of View Imaging			
f	Speckle Imaging			
g	Real-time Panoramic Imaging			
h	One key Image Optimization			
i	Raw Data to adjust the parameters after freeze			
j	Zoom function with picture in picture indication on both frozen and live images			
k	Zoom for one key image enlarged to full screen			
l	System should be capable of scanning depth up to 40 cm or more.			
m	Support HIPPA function for multi-users management			
n	Support LIP function with graph by three smart lines for orthopaedic			
o	Automatically measure : BPD, HC, AC, FL, NT			
p	Automatic measure the velocity of blood flow in C Mode			
q	Quadplex mode (B mode, C mode , PW mode and Auto Measurement at the same time)			
3.6	System should have dynamic range min. 255.			
3.7	System should have Gray Scale of Minimum 256 or more.			
3.8	System should show on the touch panel, comments and body markers can be user define			
3.9	System should come with Needle Visualization enhancement software, angle adjustable (approx. -30° to 30°)			

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3.11	System should have Inbuilt Hard Disk with capacity of at least 500GB.			
3.12	System should support Electronic Convex, Electronic Linear & Electronic volume 4d and phased array probe			
3.14	Cine Memory: 256 frames or more			
3.15	Must be able to adjust the size and position of measurement results			
3.16	System should have S-Video, VGA, USB and Audio output with provision for storage of Images and Transfer to External Devices.			
3.17	System should have feature of Transfer images and reports to PC directly through wired network			
4	Following accessories should be available with Main Unit:			
a	Convex Transducer (approx 2 - 6 MHz)			
b	Linear Transducer (approx 4 -15 MHz)			
c	4D Volume Transducer for Adult (approx 2.0 - 6 MHz)			
d	Should provide online UPS with atleast 30 min. battery backup.			
e	Ultrasound gel-3 bottle			
f	Digital video thermal printer-1 pc			

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f	Thermal printing paper-10pc			
5	Must provide online UPS with atleast 30 min. battery backup.			
6	Certificates requirments:			
6.1	Must submit ISO 13485:2003/AC: 2007 certificates.			
6.2	Must submit CE and USFDA approved product certificate.			
7	Operating Conditions			
7.1	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.			
7.2	Must provide online UPS with atleast 30 min. battery backup.			
8	Storage Conditions			
8.1	Temperature: -5°C-40°C, relative humidity: ≤ 80% and atmospheric pressure: 700hPa -1060 hPa			
9	User Training			
9.1	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.			
10	Warranty			
10.1	Comprehensive warranty for 2 years after acceptance.			
11	Maintenance Service During Warranty Period			
11.1	Preventive and corrective maintenance services during warranty period shall be included.			
12	Installation and Commissioning			
12.1	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.			
13	Documentation			
13.1	The bidder should submit a valid exclusive authorization from the manufacturer for the specific tender.			
13.2	The bidder should compulsorily fill the technical specification tender form and clearly mention the Manufacturer, Brand, Model and Country of Origin.			
13.3	User (Operating) Service (Technical / Maintenance) manual in English manual in English			

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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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