

श्रीमान कार्यालय प्रमुख ज्यू

मिति:- २०८३/०३/१५

कैलारी गाउँपालिका

कैलाली

विषय:- Technical Evaluation गरि पेश गरिएको बारे ।

प्रस्तुत बिषयमा तहाँ श्री कैलारी गाउँपालिका को आ.ब. २०८२/०८३ को लागि ठेका न IFB No: KRM/SQ/Goods/4-082/83-Re को लागि Supply and Delivery of Medical Equipment को Technical evaluation गरि सहयोग पत्रानुसार खरिद ऐन. २०६३ अनुसार निष्पक्ष रुपले कहिँ कसै प्रति भेद भाव नगरी Technical evaluation गरि यहि पत्रका साथ पठाइएको बेहोरा जानकारी गराउदैछौ ।
तपसिल:-

- | | |
|-------------------------------------|-----------------|
| १. LOMASH SURGICAL HOUSE: | Non-Responsive |
| २. Baltra Petrochemical Pvt.Ltd: | Non- Responsive |
| ३. Samjhana surgical and suppliers: | Responsive |

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ई. त्रियोगी चौधरी


बायोमेडिकल इंजिनियर

सेती प्रादेशिक अस्पताल

धनगढी , कैलाली

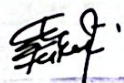
Technical Evaluation of X-ray Machine 500 mA

S.N.	Purchaser's Specifications	Bidder's Offer		
		Balra Petrochemical Pvt.Ltd	Samjhana surgical and suppliers	LOMASH SURGICAL HOUSE
	X-ray Machine 500 mA			
	Manufacturer:	not mention	Professional Imaging Inc.	Zolron Healthcare pvt.ltd
	Brand:	Allenger	Professional	Zolron
	Type/Model:	not mention	PX-500FC	ZLR HF 500
	Country Of Origin:	not mention	India	India
1	Description of Function	Not submitted		
1.1	X-ray unit is required to perform routine X-ray studies in the hospital.	manufacturer authorization,	comply	comply
2	Operational Requirements:	catalogue,		
2.1	General purpose X-ray machine 500 mA.	certification and	comply	comply
3	System Configuration	fill the technical		
3.1	X-ray machine 500 mA with complete accessories.	specification sheet so that not	comply	comply
4	Technical Specifications	qualify for		
4.1	X-ray Generator: <ul style="list-style-type: none"> Must be digital controlled line frequency generator, output 40 KW or above to give a constant output suitable for radiography. Machine ON/OFF switch. KV range: 40KV to 120KV at 50mA mA range: 500 mA or more. mAs range: 0.5 to 300mAs. Control: Digital Must Display mA, mAs & kVP Simultaneous protection from excess selection of mA, mAs, kVP & Input Voltage must be provided for Electronic Overload. Must come with 10-30 steps Voltage Compensators A dual action hand switch with retractable cord must be provided for radiation protection of operator. 	further process.	comply	comply
4.2	X-ray Tube: <ul style="list-style-type: none"> Rotating anode X-ray tube with dual focal spot (specify focal spot sizes, smaller focal spot size will be preferable). HT Transformer with Full wave rectified Tube head. Collimator with auto/manual shut off facility must be provided. 		comply	comply
4.3	Table: <ul style="list-style-type: none"> Fixed horizontal bucky table. The Bucky tray must accept cassettes up to "14x17". 		comply	comply


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4.4	Column Stand: Tube stand from floor to ceiling must be provided.		comply	comply
5	Accessories, spares and consumables			
5.1	Accessories: <ul style="list-style-type: none"> • Wall mounted Chest Stand. • Lead apron-1 pcs • Thyroid Shield- 1pcs 		committed	committed
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).		committed	committed
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.		comply	comply

6.2	Power supply: 220 or 440 VACS, 50Hz fitted with appropriate plug. The power cable must be at least 3 meter in length.		comply	comply
7	Standards and Safety Requirements			
7.1	Must submit ISO9001:2015 & ISO13485:2016 for Medical Devices		comply	comply
7.2	Must submit valid CE, or USFDA approved Certificate.		comply	comply
7.3	Must submit valid BIS and AERB certificate.		comply	comply
8	User Training			
8.1	Must provide user training (including how to use and maintain the equipment).		committed	committed
9	Warranty			
9.1	Comprehensive warranty for 2 years after acceptance.		committed	committed
10	Maintenance Service During Warranty Period			
10.1	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.		committed	committed
11	Installation and Commissioning			
11.1	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.		committed	committed
12	Documentation			
12.1	User (Operating) manual in English.		committed	committed
12.2	Service (Technical / Maintenance) manual in English.		committed	committed
12.3	Must submit valid manufacturer authorization letter.		submitted	submitted
	Technical Responsiveness		Responsive	Responsive



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Technical Evaluation of Digital Radiography (DR) System with Printer

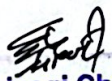
S.N.	Purchaser's Specification	Bidder's Compliance Sheet		
		Baltra Petrochemical Pvt.Ltd	Samjhana surgical and suppliers	LOMASH SURGICAL HOUSE
	Digital Flat Panel Detector		Radisen co., ltd	Carestream Health Inc
	Manufacturer:		Radisen	Carestream
	Brand:		Pedra 1417MC	35c
	Model:		Korea	China/USA
	Country of Origin:			
1	Digital Flat Panel Detector			
1.1	Description of functions: The Flat Panel Detector directs digital radiography unit (portable type) for general purpose radiology examinations. It should be a retrofit solution and capable to work with any of the X-ray available in the hospital.	Not submitted manufacturer authorization, catalogue, certification and fill the technical specification sheet so that not qualify for further process	comply	comply
1.2	Flat Panel Detector with workstation should be provided. It shall be suitable for adult and pediatric patients in general radiography examination.		comply	comply
2	System Configuration			
	Detector:01		committed	committed
	Imaging Workstation:01			
	Medical X-ray Film Printer: Double tray (film based):01		committed	committed
3	Technical Specification			
	Flat Panel Detector System			
3.1	The Flat Panel should be a Retrofit Solution and capable to work with any of the X-Ray available in Department.		comply	comply
3.1.1	Direct Deposit Cesium Iodide (CSI): TI Scintillator		comply	comply
3.1.2	The system must have CSI Direct-deposition technology for ensuring excellence of image quality at low X-ray dose and improves operation safety.		comply	comply
3.1.3	Should incorporate Automatic Exposure Detection Technology.		comply	comply
3.1.4	Portable approx. 14x17 inches size detector.		comply	comply
3.1.5	The detector should be light weight (less than 3.5 Kgs).		comply	comply
3.1.6	The Pixel pitch should be equal to or less than 140 microns.		comply	comply
3.1.7	Should have a spatial resolution: 3.4 LP/mm (lines per millimeter) or better.		comply	comply
3.1.8	Image Matrix size: 3052 pixels x 2500 pixels or better.		comply	comply


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3.1.9	Image acquisition time should be less than 2.5 sec.		comply	comply
3.1.10	Should have a minimum image depth of 16 bits or more.		comply	comply
3.1.11	Data communication should be wireless and wired connection powered by Power Box using single Interface Cable and Gigabit LAN Cable.		comply	comply
3.1.12	The Detector should have Detachable Li-ion Polymer Technology battery or Lithium Polymer battery and should be provided with one extra battery of $\geq 4000\text{mAh}$ with battery backup of minimum 6 Hours or more along with battery charger having charging time not more than 2.5hrs.		comply	comply
3.1.13	The Battery Charger should have facility to charge single / double battery at a time.		comply	comply
3.1.14	The detector connectivity should be both wireless and wired.		comply	comply
3.1.15	The Detector should be able to withstand surface load of at least 150kg or more.		comply	comply
3.1.16	Software should have DICOM & PACS connectivity.		comply	comply
3.1.17	Workstation: Should be supplied with the following configuration: <ul style="list-style-type: none"> • Branded CPU – Intel i5 or Latest model processor, • RAM – 16GB, SSD – 500GB, • OS Window 10, 64 bit or Latest • Display: At least 19" size Full HD LED Monitor 		committed	committed
3.1.18	Image Manipulation/Post processing Software: <ul style="list-style-type: none"> • Image post-processing, such as image transformation, including inversion, flip vertically/horizontally, rotation, etc. • Multi patient viewing and printing. • Image Magnification • Cropping and masking of images (standard software) • Distance measurement and Angle • Exporting images in JPEG and DICOM 		comply	comply
3.1.19	The offered model must be manufactured in the year 2026. Bidder must mention the year of manufacture.		not- mention	not- mention
3.1.20	The system should be supplied with AI-based software for automated analysis of Chest X-ray images, fully integrated with the Digital Radiography system and workstation.		comply	Not comply Limited AI


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3.1.21	The AI software shall support Chest X-ray interpretation for at least following target abnormalities or better: Infectious Diseases: Tuberculosis detection with accuracy $\geq 95\%$ Lung Abnormalities: Atelectasis, Lung opacity (Consolidation / Infiltration), Pleural effusion, Pulmonary nodule / mass, Pneumothorax with overall accuracy $\geq 90\%$ Cardiovascular Abnormalities: Cardiothoracic ratio calculation, Cardiomegaly detection with accuracy $\geq 90\%$	comply	Not comply Limited AI
3.1.22	The bidder shall provide AI software name, version and perpetual license.	committed	committed
3.1.24	The AI solution shall be CE approved/marked medical device software. Approval certificates should be submitted.	comply	comply
	Medical X-ray Film Printer		
	Manufacturer:	Carestream Health Inc.	Carestream Health Inc.
	Brand:	Carestream	Carestream
	Model:	TX55	TX55
	Country of Origin:	Singapore	Singapore
3.2.1	Double Tray Medical Dry Film Printer should be provided.	comply	comply
3.2.2	Printer should have dry thermal/Laser imager technology.	comply	comply
3.2.3	Throughput: 70 films or more	comply	comply
3.2.4	Film Sizes: 8x10, 10x12, 11x14, 14x17.	comply	comply
3.2.5	Resolution ≥ 500 DPI.	comply	comply
3.2.6	Printer should be DICOM Compatible	comply	comply
3.2.7	Contrast: 14-bit contrast resolution or more.	comply	comply
3.2.8	X-Ray film must be insensitive to light and shall be used directly under daylight.	comply	comply
3	Accessories and spare parts and consumables		
3.1	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. Bidders must specify the quantity of every item included in their offer (including items not specified above).	committed	committed
4	Operating Environment:		
4.1	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.	comply	comply
4.2	Power supply: 220–240V AC, 50Hz fitted with appropriate plug type. The power cable must be at least 3 meter in length	comply	comply


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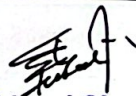
5	Standards and Safety Requirements:			
5.1	Must submit ISO13485:2003/AC:2007 for Medical Devices for Flat Panel Detector & printer.		comply	comply
5.2	Must submit European CE from notified body for flat panel detector & printer. Self-Declared CE is not acceptable.		comply	comply
5.3	Must submit USFDA (510K) approved product certificate for flat panel detector.		comply	comply
5.4	Must submit EN 60601-1: 2006 Medical electrical equipment-Part1: General requirements for safety.		comply	comply
5.5	Must Submit IEC 60601-1-2: 2007 Medical electrical equipment-Part 1-2: Collateral standard: Electromagnetic Compatibility-Requirements and tests.		comply	comply
6	User Training:			
6.1	Must provide user training (including how to use and maintain the equipment).		committed	committed
7	Warranty:			
7.1	Comprehensive warranty for 2 years after installation.		committed	committed
8	Maintenance Service During Warranty Period:			
8.1	During the warranty period supplier must ensure preventive, and Corrective/breakdown maintenance whenever required.		committed	committed
9	Installation and Commissioning:			
9.1	Supplier must accomplish proper installation and commissioning of the equipment on site.		committed	committed
10	Documentation:			
10.1	User (Operating) manual in English.		committed	committed
10.2	Service (Technical/ Maintenance) manual in English.		committed	committed
10.3	The bidder must submit a Manufacturer Authorization Letter issued directly by the Manufacturer of the offered systems.		submitted	not comply sub authorization submitted
	Technical Responsiveness	Non-Responsive	Responsive	Non-Responsive



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Technical Evaluation of ECG Machine, Portable (12 Channel)


S.N.	Purchaser's Specification	Bidder's Compliance Sheet		
		Baltra Petrochemica l Pvt.Ltd	Samjhana surgical and suppliers	LOMASH SURGICAL HOUSE
	ECG Machine, 12 Channel			
	Manufacturer:	Not mention	Shenzhen biocare biomedical equipments co.,ltd	Edan Instruments
	Brand:	DR Max	Biocare	Edan
	Type of Model:	not mention	iE12A	SE 1201 Pro
	Country of Origin:	not mention	China	China
1	Description of Function			
1.1	Microprocessor-based 12-channel digital electrocardiograph capable of simultaneous acquisition, interpretation, storage and printing of 12-lead ECG signals with advanced ECG analysis software.	Not submitted manufacturer authorization , catalogue, certification and fill the technical specification sheet so that not qualify for further process.	comply	comply
2	Operational Requirements			
2.1	Portable digital ECG machine must be able to acquire all 12 Leads simultaneously (12 channel System).		comply	comply
3	System Configurations			
3.1	Portable digital ECG Machine with complete accessories.		comply	comply
4	Technical Specifications			
4.1	System must acquire simultaneous 12-lead ECG signals (I, II, III, aVR, aVL, aVF, V1-V6).		comply	comply
4.2	System must support Cabrera lead format, Nehb lead and Vectorcardiography (VCG) display mode.		comply	comply
4.3	Lead-off detection with visual and audible alarm.			
4.4	System must have Integrated 9-inch TFT color touch screen display adjustable tilt display at least 15° viewing angle having resolution minimum 1280 × 768 which shows ECG-curves, heart rate, patient name and ID, time, speed and filter setting.		comply	comply 10.1 inch lcd with better resolution 1920*1200
4.5	Self-test is performed each time the device is switched on.	comply	comply	
4.6	System should have inbuilt physical alphanumeric QWERTY keyboard.	comply	comply virtual keyboard with touch screen 10.1 inch no physical	


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			alphanumeric QWERTY keyboard.
4.7	The system shall provide selectable baseline filters of 0.01/0.02/0.05/0.32/0.5/0.67/0.8 Hz, AC filter options of 50 Hz, 60 Hz, or off, power frequency interference suppression ≥ 40 dB, EMG filters of 25/35/42/45 Hz or off, and low-pass filters of 75/90/100/150/165/270 Hz or off to ensure optimal noise reduction and signal fidelity.	comply	comply
4.8	The system must continuously check on the quality of electrodes connection, audio visual alert on loss of signal.	comply	comply
4.9	The ECG system must be protected for operation during defibrillation.	comply	comply
4.10	The ECG system shall have a frequency response of 0.05 – 250 Hz to ensure accurate capture of all cardiac signal components.	comply	comply
4.11	The system shall use an analogue-to-digital converter (ADC) with 24-bit resolution for high-fidelity signal acquisition.	comply	comply
4.12	The ECG shall support a minimum sampling rate of 128000samples/sec/lead to capture detailed waveform morphology.	comply	comply sampling rate of 64000samples/sec/lead
4.13	The system shall have an input impedance of at least ≥ 30 MQ (@10Hz) to minimize loading effects on the patient signal.	comply	comply
4.14	The ECG shall provide a common mode rejection ratio (CMRR) of at least 144dB (AC Filter on) and 122dB (AC filter off) to ensure excellent noise suppression and signal quality.	comply	comply
4.15	The ECG system shall support multiple recording modes, including Economic, Automatic, Manual, Upload, Cycle, and Trigger recording modes.	comply	comply
4.16	The rhythm analysis recording time shall be adjustable from 30 to 300 seconds.	comply	comply
4.17	The system shall allow waveform freeze and review for up to 300 seconds to facilitate detailed ECG analysis.	comply	comply
4.18	The ECG machine shall be equipped with built-in high-resolution thermal printer.	comply	comply
4.19	The printer shall use 210 mm \times 140 mm Z-fold thermal paper for standard ECG printouts.	comply	comply
4.20	The system shall support selectable recording speeds of 5, 6.25, 10, 12.5, 25, and 50 mm/s.	comply	comply


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4.21	The printer shall provide multiple print formats, including 3×4, 3×4+1R, 6×2, and 12×1 ECG report formats.		comply	comply
4.22	Machine Should have print preview option before taking print out.		comply	comply
4.23	The System must have internal memory for data storage of at least 5 GB.		comply	comply
4.24	The ECG machine shall support external data storage via USB flash drive and SD card.		comply	comply
4.25	The system shall allow ECG data export in PDF, XML, JPEG, DICOM.		comply	comply
4.26	The ECG system shall provide USB, LAN, and SD card interfaces for data transfer.		comply	comply
4.27	The machine shall support HL7 connectivity to integrate with hospital information systems for seamless data transfer.		comply	comply
4.28	System must have barcode scanner connectivity for patient data input.		comply	comply
4.29	The system shall provide arrhythmia detection and heart rate variability (HRV) analysis.		comply	comply
4.30	ECG measurement parameters shall include PR interval, QRS duration, QT/QTc interval, and P-QRS-T axis.		comply	comply
4.31	System should have facility to detect pacemaker.		comply	comply
4.32	Inbuilt rechargeable battery with battery backup of more than 3 hours of continuous working.		comply	comply
4.33	Machine must have light weight less than 3.5kg with integrated handle for carrying easily.		comply	comply
5	Accessories, Spares and Consumables			
5.1	Accessories: <ul style="list-style-type: none"> • Patient cable – 1 no. • Reusable chest electrodes, suction ball-type-6nos • Extremity clamp electrodes, re-usable-4nos. • Box of Z-fold having dimension 210mm x 140mm x 140p- 1 Pkt • Bottles of electrode gel, approximately 350ml-1 nos. • Rechargeable battery pack-1no. • Earthing Cable 		committed	committed
5.2	Power Supply: 220-240V AC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.		comply	comply
6	Standard and safety Requirements			
6.1	Must submit EN ISO 13485 for Medical Devices.		comply	comply
6.2	Must submit European CE from notified body and USFDA (510K) approved product certificate.		comply	comply



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6.3	Must submit IEC 60601-1: Part 1 for general requirements for basic safety and essential performance.		comply	comply
6.4	Must submit IEC 60601-1-2: Part 2 for general requirements for basic safety and essential performance.		comply	comply
7	User Training			
7.1	Must provide user training (including how to use and maintain the equipment).		committed	committed
8	Warranty			
8.1	Comprehensive warranty for 1 years after acceptance.		committed	committed
8.2	Must submit commitment letter from the manufacturer & bidder guaranteeing the availability of spare parts for the next 5 years.		committed	committed
9	Maintenance Service During Warranty Period			
9.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.		committed	committed
10	Installation and Commissioning			
10.1	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 details		committed	committed
11	Documentation			
11.1	Must submit user (Operating/Maintenance) Manual in English.		committed	committed
11.2	Service (Technical/Maintenance) Manual in English.		committed	committed
11.3	List of important spare parts and accessories with their part numbers and costing valid for at least 5 years.		committed	committed
11.4	Certificate of calibration and inspection from factory.		committed	committed
11.5	Must submit the valid manufacturer authorization letter.		comply	not comply sub- manufacturer authorization
	Technical Responsive	Not- Responsive	Responsive	Not- Responsive


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Technical Evaluation of Laboratory Refrigerator (Single Door) 2-8 Degree


S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
	lab Refrigerator (Single Door)	Baltra Petrochemical Pvt.Ltd	Samjhana surgical and suppliers	LOMASH SURGICAL HOUSE
	Manufacturer	not mention	Elan Professional Appliances Pvt.Ltd	Qingdo Haier biomedical co., ltd
	Brand	not mention	Elan Pro	Haier biomedical
	Type/Model	not mention	ECG 305	HYC-410
	Country of Origin	not mention	India	China
1	Description of Function			
1.1	Laboratory Refrigerator is used to store samples, medicines, blood bags, reagents etc. under controlled temperature conditions.	Not submitted manufacturer authorization, catalogue, certification and fill the technical specification sheet so that not qualify for further process.	comply	comply
2	Operational Requirements			
2.1	Refrigeration system: CFC-free refrigerant cooling system		comply	comply
2.2	Capacity of storage: min.300 liters		comply	comply
3	System Configuration			
3.1	The system consists of: Refrigerator for lab min. 300L.		comply	comply
4	Technical Specifications			
4.1	Microprocessor based temperature control.		comply	comply
4.2	Should have min. LCD/LED display and alarm system.		comply	comply
4.3	Monitor for temperature with alarm, visual and sound, for high/low temperature.		comply	comply
4.4	Should have inner surface of medical grade compression molded plastic and outer body high grade polished galvanized steel.		comply	comply
4.5	Auto defrosting. Adjustable shelves of min 5 shelves.	comply	comply	
4.6	Should have uniform cooling by forced air circulation.	comply	comply	
4.7	Should have adjustable powder coated shelves.	comply	comply	
4.8	Interior light to operate when door is opened.	comply	comply	
4.9	Locking door supplied with minimum two keys.	comply	comply	
4.10	Should have clear product visibility with dual glass door	comply	comply	
4.11	Low energy consumption.	comply	comply	


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4.12	Low noise level min.50dB.		comply	comply
4.13	Temperature Range: 2°C~8°C			
4.14	Should have optimized temperature uniformity, recovery & stability for best environment for sample storage.		comply	comply
4.15	Refrigerator should be Single door, upright model (side by side door)		comply	comply
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.		committed	committed
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.		comply	comply
6.2	Power input to be 220-240VAC, 50Hz fitted with appropriate plug.		comply	comply
7	Standards and Safety Requirements			
7.1	Must submit ISO 9001 or ISO13485 standard certificate.		comply	comply
7.2	Must submit CE(Compliance or EU-CE) or USFDA approved certificate.		comply	comply
8	User Training			
8.1	Supply shall include user training.		committed	committed
9	Warranty			
9.1	Comprehensive warranty for 1 year after acceptance.		committed	committed
10	Maintenance Service During Warranty Period			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.		committed	committed
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.		committed	committed
12	Documentation			


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2.1	User (Operating)/ Service (Technical / Maintenance) manual in English		committed	committed
	Technical Responsiveness	Not- Responsive	Responsive	Responsive


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