

ANNEX A

Dental X-Ray Equipment	
Demand Reference	DSE/05/25/05
Description	Digital X-ray Image Plate Scanner
Quantity Required	2 units Image Plate Scanner

Ser	Technical Data & Dimensional		Offer
	Item	Specification	
(a)	(b)	(c)	(d)
Essential			
1	General	The X-Ray image plate scanner enables the digitization of intra-oral X-Ray image plates for dental diagnosis.	
2	Technology	Small footprint that fits any room, maintenance-free and durable helping prevent downtime and ensure maximum efficiency. Uses radio-frequency identification (RFID) technology for fast scanning and identification. Smart imaging plates can be used a number of times and incorporate an integrated eraser – instantly preparing them for further use. Flexible and bendy plates are very comfortable for patients and available in size 0, 1 and 2. Image plate is equipped with a digital serial number, so that all images can be sorted, viewed, and compared for reliable quality control. Compatible with <i>Romexis</i> Digital X-Ray Software System	
3	Features	Top image quality Able to share in the network between multiple treatment rooms Supports imaging plate sizes – 0, 1 and 2 RFID technology to automatically connect the patient file with the correct imaging plate PC connection via Ethernet Once the image has been scanned, it is automatically sent to the correct patient file and workstation Quick, reliable and convenient	
4	Requirements		
	Platform	Romexis platform - for seamless data transfer to other Dental centers currently running Romexis	
	Intraoral Plate size	Can be used on intraoral image plate formats size 0, 1 and 2.	
	Interfacing	Ethernet and/or USB	
	Image Eraser	Eraser Embedded	
	Scanner	Romexis or Romexis direct compatible platform	

5	Electrical Specifications	
	Voltage	100~240V / 50~60Hz
6	Technical Specifications	
	Dimensions (H x W x D)	≤ 235 x 170 x 230 mm
	Weight	≤4.5 kg
	Gray scale	16 bit
	True resolution	12 lp/mm
	Theoretical resolution	16.7 lp/mm
	Pixel size standard	30µm
	Interfaces	LAN, Ethernet and/or USB
7	Setup	
	Units to be installed in 2 different dental centers. With exact placement preferred by user	
	Networking function to enable image viewing and manipulation in other surgeries within each center	
	Operating Software to be directly compatible with Romexis for seamless data transfer with other dental centers	
8	Accessories to be included with EACH Scanner unit	
	4 nos	Plus Size 0 image plate
	8 nos	Plus Size 2 image plate
	200 pcs	Light protection covers for Plus Size 0
	800 pcs	Light protection covers for Plus Size 2
	2 nos	Image plate storage box
	100 pcs	Image Plate cleaning wipes
	2 sets of Size 0 and size 2	Image Plate holder System of multiple colors and assortment
Installation and Support		
9	User Training	On site user training must be included
10	Technical / Service / Parts Manual	The Supplier shall provide during commissioning period a complete set of Spare parts and Technical Service Manuals to assist in the conduct of routine maintenance procedures and fault-finding techniques
11	Approved Agent Status	It is essential that the contractor/ Supplier submit a letter from the manufacturer stating that they: <ul style="list-style-type: none"> • Manufacturers authorized the supplier of the equipment • Are authorized by the manufacturer to install; test and commission their equipment
12	Warranty	It is essential that the manufacturer provided a minimum of 1-year warranty support (parts and labor) from the date of acceptance into service. No limit of breakdown calls within warranty period.

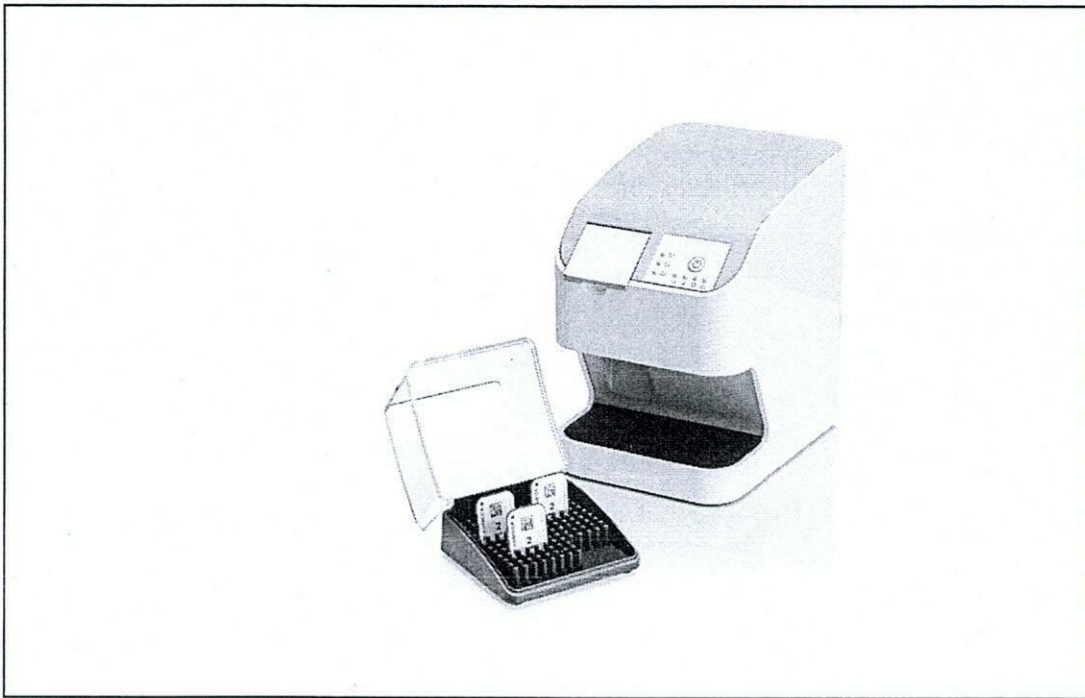
13	Preferred Model/Brand & country Origin of the manufacturer	Planmeca ProScanner 2 (Finland) or Equivalent	
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*Important Notice

This specification annex form must complete and attached with the quotation tenders provided.

Company / Supplier Chop & Signature

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Dental X-Ray Equipment	
Dental Services RBAF Demand Reference	DSE/05/25/05
Descriptions	<u>DENTAL EQUIPMENT</u> Digital X-ray Image Plate Scanner (See Annex A- 1)
Quantity Required	2 Units Scanner with accessories
Preferred Model/Brand & Country Origin of the Manufacturer	Planmeca ProScanner 2 (Finland) or Equivalent
Submitting Catalogue/Brochures	The Supplier must submit Catalogue / Brochures for the offered item together with tender document.

Dental X-Ray Equipment	
Demand Reference	DSE/05/25/08
Description	INTRA ORAL X-RAY SHORT ARM
Quantity Required	1 Unit with Extension Short arm

Ser	Technical Data & Dimensional		Offer
	Item	Specification	
(a)	(b)	(c)	(d)
Essential			
1	General	Dental Intraoral digitize X-rays help dentists visualize diseases of the teeth and surrounding tissue that cannot be seen with a simple oral exam. They also help the dentist find and treat dental problems early on, which can help save you money, unnecessary discomfort, and maybe even your life.	
2	Technical data	Generator	Constant potential, microprocessor controlled
		operating frequency	66 kHz
		Focal spot size	0.4 mm according to IEC 60336
		Cone diameter	60 mm (2.36 in.) Rectangular 33 x 43 mm (1.30 x 1.69 in.)
		Max. symmetrical radiation field	Ø60 mm at SSD 200 mm Ø60 mm at SSD 300 mm according to IEC 806
		Total filtration min	2.5 mm Al equivalent at 70 kV according to IEC 60522
		Anode voltage	7 mA: 50, 52, 55, 57, 60 kV, ±2 kV 2-6 mA: 50, 52, 55, 57, 60, 63, 66, 70 kV, ±2 kV
		Anode current	8, 7, 6, 5, 4, 3, 2 mA ±(5% + 0.2 mA)
		Exposure times	0.01-2 sec. ±(5% + 0.001 sec.), 24 steps
		SSD (Source-Skin Distance) Standard/Long	200 mm (8 in.)/300 mm (12 in.)
		Mains voltage	220-240 V~, 50/60 Hz
		Duty cycle	1:30, automatic control
		Electrical classification Class I	Type B
Weight total	total 29 kg (64 lbs) tube head with standard cone		

			4.2 kg (9.3 lbs) tube head with long cone 4.5 kg (10 lbs)	
		Color	White (RAL 9016)	
		Extension Arm	EXTENSION SHORT ARM 39 cm	
3	Features	<ul style="list-style-type: none"> • Adapts to both the short-cone and long-cone imaging techniques. • Steady X-ray imaging arm provides accurate and drift-free positioning of its lightweight tube head. • Pre-programmed settings for different exposure value combinations 		
Installation and Support				
4	Approved Agent Status	It is essential that the contractor/ Supplier submit a letter from the manufacturer stating that they: <ul style="list-style-type: none"> • Manufacturers authorized the supplier of the equipment • Are authorized by the manufacturer to install; test and commission their equipment 		
5	Warranty	It is essential that the manufacturer provided a minimum of 1 year warranty support (parts and labor) from the date of acceptance into service		
Desirable				
6	Preferred Model/ Brand & country Origin of the manufacturer	Planmecca Intraoral X-Ray Pro X with ext short arm 39cm or Equivalent		

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Dental X-Ray Equipment	
Dental Services RBAF Demand Reference	DSE/05/25/08
Descriptions	Intra -oral x-ray with short arm
Quantity Required	01 unit with short arm extension 39 cm
Preferred Model/Brand & Country Origin of the Manufacturer	Planmeca Pro X with short arm with short arm extension 39 cm or equivalent.
Submitting Catalogue/Brochures	The Supplier must submit the Catalogue/brochures completely for the offered item.

Dental X-Ray Equipment	
Demand Reference	DSE/05/25/09
Description	INTRA ORAL X-RAY LONG ARM
Quantity Required	1 unit with Extension long arm

Ser	Technical Data & Dimensional		Offer
	Item	Specification	
(a)	(b)	(c)	(d)
Essential			
1	General	Dental Intraoral digitize X-rays help dentists visualize diseases of the teeth and surrounding tissue that cannot be seen with a simple oral exam. They also help the dentist find and treat dental problems early on, which can help save money, unnecessary discomfort, and maybe even your life.	
2	Technical data	Generator	Constant potential, microprocessor controlled
		operating frequency	66 kHz
		Focal spot size	0.4 mm according to IEC 60336
		Cone diameter	60 mm (2.36 in.) Rectangular 33 x 43 mm (1.30 x 1.69 in.)
		Max. symmetrical radiation field	Ø60 mm at SSD 200 mm Ø60 mm at SSD 300 mm according to IEC 806
		Total filtration min	2.5 mm Al equivalent at 70 kV according to IEC 60522
		Anode voltage	7 mA: 50, 52, 55, 57, 60 kV, ±2 kV 2-6 mA: 50, 52, 55, 57, 60, 63, 66, 70 kV, ±2 kV
		Anode current	8, 7, 6, 5, 4, 3, 2 mA ±(5% + 0.2 mA)
		Exposure times	0.01-2 sec. ±(5% + 0.001 sec.), 24 steps
		SSD (Source-Skin Distance) Standard/Long	200 mm (8 in.)/300 mm (12 in.)
		Mains voltage	220-240 V~, 50/60 Hz
		Duty cycle	1:30, automatic control
		Electrical classification Class I	Type B
Weight total	total 29 kg (64 lbs)		

		tube head with standard cone 4.2 kg (9.3 lbs) tube head with long cone 4.5 kg (10 lbs)	
		Color	White (RAL 9016)
		Extension arm	EXTENSION LONG ARM 110cm
3	Features	<ul style="list-style-type: none"> Adapts to both the short-cone and long-cone imaging techniques. Steady X-ray imaging arm provides accurate and drift-free positioning of its lightweight tube head. Pre-programmed settings for different exposure value combinations 	
Installation and Support			
4	Approved Agent Status	It is essential that the contractor/ Supplier submit a letter from the manufacturer stating that they: <ul style="list-style-type: none"> Manufacturers authorized the supplier of the equipment Are authorized by the manufacturer to install; test and commission their equipment 	
5	Warranty	It is essential that the manufacturer provided a minimum of 1 year warranty support (parts and labor) from the date of acceptance into service	
Desirable			
6	Preferred Model/ Brand & country Origin of the manufacturer	Planmecca Intraoral X-Ray Pro X or Equivalent	

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Dental X-Ray Equipment	
Dental Services RBAF Demand Reference	DSE/05/25/09
Descriptions	Intra -oral x-ray with extension long arm
Quantity Required	1 unit with Extension long arm
Preferred Model/Brand & Country Origin of the Manufacturer	Planmecca Intraoral X-Ray Pro X Extension long arm or Equivalent
Submitting Catalogue/Brochures	The Supplier must submit the Catalogue/brochures completely for the offered item.

Dental X - Ray Equipment	
Demand Reference	DSE/05/25/15
Description	Portable Hand Held Xray complete with accessories
Quantity Required	1 unit

Ser	Technical Data & Dimensional		Offer
	Item	Specification	
(a)	(b)	(c)	(d)
Essential			
1	General	The hand held X-ray generation is a fast and safe portable X-Ray system that produces diagnostic dental images. The dental radiography unit has a light weight and cordless design with enhanced user interface, pre-sets and programmable exposure settings which improve the speed, convenience and efficiency of dental radiography.	
2	Technical data	<ul style="list-style-type: none"> • Power Supply, 16.8V (Rechargeable battery) • Tube voltage 70kV (Fixed) • Tube current 1.7 mA / 2.0 ,A (Fixed) • Exposure time range 0.05 – 1.00 sec • Focal spot 0.4 mm • Inherent filtration >1.5mm Al equivalent • Source to skin 20 cm • X-ray field 60 mm round • Maximum duty cycle 1:60 • Total weight 2.17kg (4.78 lbs.) • Approximate dimensions W 16 cm, L 25.7 cm, H 25 cm (W 6.3", L 10.1", H 9.8") 	
3	Features	<p>Lightweight and Compact design for easy handling and portability.</p> <p>Capable of capturing 600 shots per fully charged.</p> <p>HANDHELD - Only 4.78 lbs (2.17kg). Allows operator to stay with the patient during the exam.</p> <p>SHIELDED - Fully encapsulated X-ray source and backscatter shield, protecting the operator radiation.</p> <p>PATIENT FRIENDLY - Take radiographs at difficult angles without contorting the patient, even during operator procedures.</p> <p>ECONOMICAL- No installation, renovation, or re-wiring. Make every table an X-ray station.</p> <p>VERSATILE - Can work in any location with film, phosphor plates, and digital sensors</p> <p>EXTENDS YOUR PRACTICE - Excellent for dental, dental forensic, small animal, exotics, equine.</p>	

4	Accessories Included	One battery, Hard case carrying bag, charger sets, back scatter shield, neck strap and external battery.	
Installation and Support			
5	Approved Agent Status	It is essential that the contractor/ Supplier submit a letter from the manufacturer stating that they: <ul style="list-style-type: none"> • Manufacturers authorized the supplier of the equipment • Are authorized by the manufacturer to install; test and commission their equipment 	
6	Warranty	It is essential that the manufacturer provided a minimum of 1 year warranty support (parts and labor) from the date of acceptance into service	
Desirable			
7	Preferred Model/ Brand & country Origin of the manufacturer	Dexcowin Cocoon Portable X-ray with hard case or Equivalent	

*Important Notice

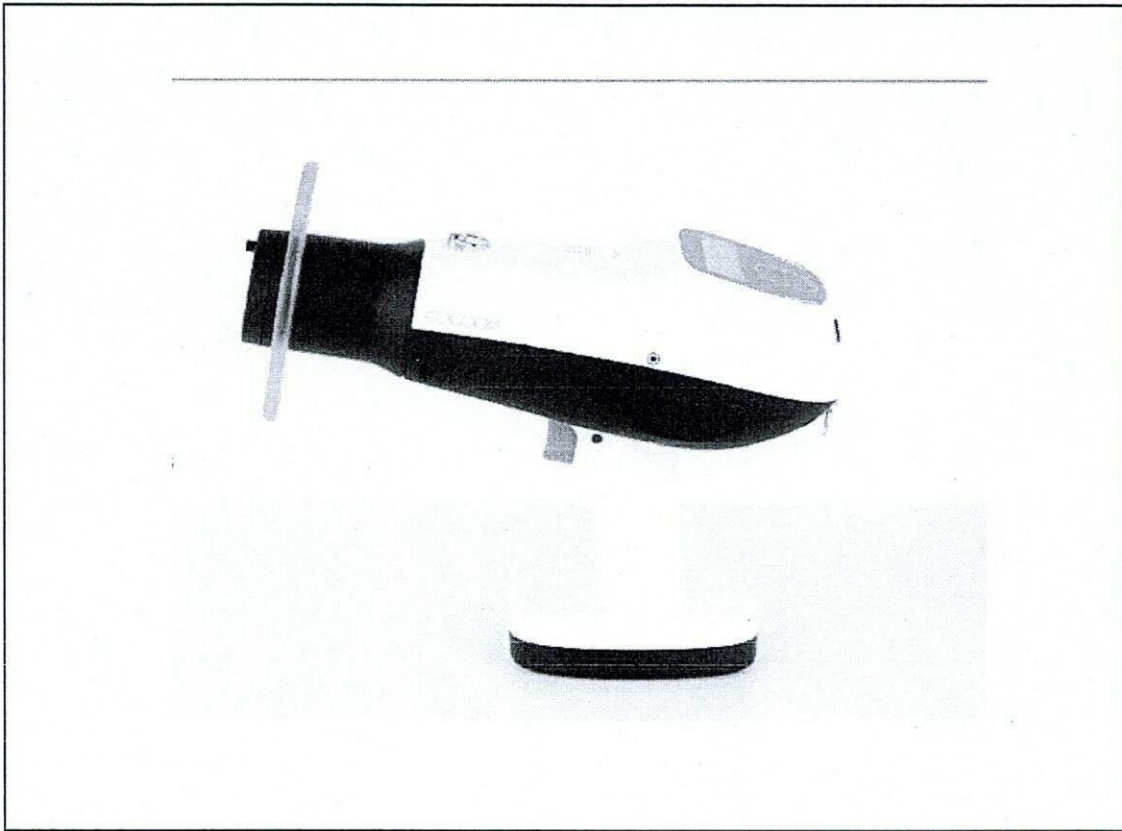
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Dental Services RBAF Demand Catalogue Reference

Appendix B-1



Dental X - Ray Equipment	
Dental Services RBAF Demand Reference	DSE/05/25/15
Descriptions	Portable Hand Held Xray complete with accessories
Quantity Required	1 Unit
Preferred Model/Brand & Country Origin of the Manufacturer	Dexcowin Cocoon Portable X-ray with hard case or Equivalent
Submitting Catalogue/Brochures	The Supplier must submit the Catalogue/brochures completely for the offered item.

Dental X - Ray Equipment	
Demand Reference	DSE/05/25/18
Description	Digital X-ray Sensor with Rugged book PC
Quantity Required	1 set

Ser	Technical Data & Dimensional		Offer
	Item	Specification	
(a)	(b)	(c)	(d)
Essential			
1	General	The X-Ray image Sensor enables the digitization of intra-oral X-Ray for dental diagnosis. Image sensor require no Scanner for image processing thus suitable for deployment purpose.	
2	Features	Image resolution of over 20 lp/mm, true HD quality. Supporting detailed diagnosis, the sensor with a fibre-optic layer captures sharp, low noise and high contrast images. Able to integrate into any intraoral X-ray system through USB port. Sophisticated magnetic connector that is easy to attach using only one hand Hermetically sealed housing ensures effective infection control	
3	Requirements		
	PC specification	Laptop made with shock-absorbent materials and meets rigorous military-standard requirements. Compression-sealed from sand, dust and liquids. Intel Core Ultra 5 135U or higher Minimum 16G Integrated memory GFX 338-CQXQ or higher Windows 10 Pro OS or Higher 256GB PCIe NVMe 2230 solid-state storage 13.3" FHD Touchscreen (1980 x 1080 60 Hz, Anti-Glare) Anti-glare outdoor readable High-resolution screen Integrated high-power graphic card Installed with Romexis software which enable communication with existing digital x-ray system in Berakas Dental Center	
	Digital Intra-Oral Sensor	Size 2 with control box x 1 no	
	Software to be included	Romesis Dental imaging software 2D license	
4	Setup		
	PC supplied must be able to work with the Berakas OPG server for viewing, manipulation and image transfer.		

5	Extra Accessories to be included		
	200 pcs	protection covers for image sensor size 2	
	1 no	Impact resistant hard case for image sensor	
	1 no	Impact resistant hard case for laptop	
6	User Training		
	On site user training must be included		
Installation and Support			
7	Technical / Service / Parts Manual	The Supplier shall provide during commissioning period a complete set of Spare parts and Technical Service Manuals to assist in the conduct of routine maintenance procedures and fault-finding techniques	
8	Approved Agent Status	It is essential that the contractor/ Supplier submit a letter from the manufacturer stating that they: <ul style="list-style-type: none"> Manufacturers authorized the supplier of the equipment Are authorized by the manufacturer to install; test and commission their equipment 	
9	Equipment Whole-life Support	It is essential that the contractor/supplier submit a letter from the manufacturer guaranteeing that spare parts will continue to be supplied for at least 10 years which is the envisaged in-service life of the equipment.	
10	Warranty	It is essential that the manufacturer provided a minimum of 1-year warranty support (parts and labor) from the date of acceptance into service	
11	Preferred Model/Brand & country Origin of the manufacturer	Planmeca ProSensor (Finland) with DELL Pro Rugged 13 Professional Laptop or Equivalent	

*Important Notice

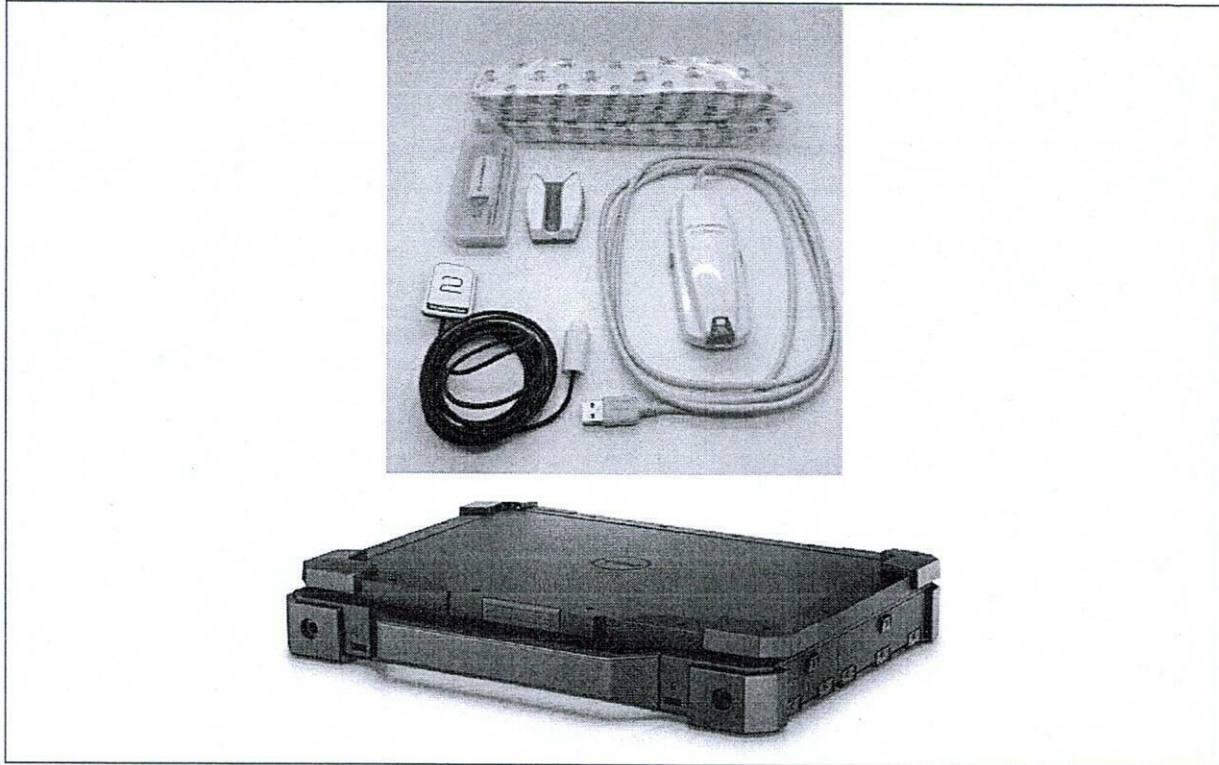
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Dental Services RBAF Demand Catalogue Reference

Appendix B-1



Dental X - Ray Equipment	
Dental Services RBAF Demand Reference	DSE/05/25/18
Descriptions	Digital X-ray Size 2 intra-oral Image sensor with Rugged NoteBook
Quantity Required	1 Sets
Preferred Model/Brand & Country Origin of the Manufacturer	Planmeca ProSensor (Finland) with DELL Pro Rugged 13 Laptop or Equivalent
Submitting Catalogue/Brochures	The Supplier must submit the Catalogue/brochures completely for the offered item.