

**TECHNICAL SPECIFICATIONS FOR A
PANORAMIC DENTAL X-RAY MACHINE
WITH CEPHALOMETRIC CAPABILITY
(Includes the supply, delivery, installation
and commissioning of unit)**

Application/Use

Dental radiography

Standard Composition

- X-ray Generator
- X-ray Tube Assembly
- Control Panel
- Exposure Switch
- Accessories
- Other Requirements
- Other Terms and Conditions

Technical Specifications

			Bidder's Offer (Please check if available)
<i>X-ray Generator</i>	Generator	High frequency inverter system	
	Tube Voltage	maximum of 100 kVp	
	Power Source	Single phase, 220 VAC, 60 Hz	
<i>X-ray Tube Assembly</i>	Effective focal spot size	1.0 mm x 1.0 mm or smaller	
	Total permanent filtration	Minimum of 1.5 mm Al equivalent	
<i>Control Panel</i>	Exposure time	upto14 seconds or better	
	Beam-on indicator		
<i>Exposure switch</i>	Dead-man type		
	At least 2 meters long		
<i>Accessories</i>	Thyroid protective collar	1 pc for the patient	
		With at least 0.25 mm lead equivalence	
	Protective apron	1 pc for the patient	
		With at least 0.25 mm lead equivalence	
		100 cm long and 60 cm wide	
	Protective barrier	movable or permanent	
lined with at least 1.5 mm lead sheet or for permanent, made of 6 inches poured concrete			
	with lead glass viewing window with at least 1.5 mm lead equivalence mounted at the eye level of the operator		

Other Requirements	To be checked by the bidder
A split type, 3-ton capacity, 220 VAC, 60 Hz air-conditioning unit with automatic voltage stabilizer, 60 Hz, 170-260 V voltage range	
An automatic voltage stabilizer, 60 Hz, 170-260 V voltage range for the whole x-ray unit	
Two sets of the following: <ul style="list-style-type: none"> • service and installation manuals • operation and instruction manuals • wiring and schematic diagrams • parts listing • anode cooling chart • tube rating chart 	

Other Terms and Conditions	To be checked by the bidder
Two (2) years warranty for parts and service after passing the acceptance testing of the Radiation Health Service (RHS), Department of Health (DOH)	
Must comply with the applicable requirements under DOH Administrative Order (AO) No. 35, s. 1994	
Bid offer is in Philippine peso to include taxes and duties; transportation to site, delivery, installation and testing expenses on site (hospital)	
Equipment must pass the acceptance testing of the RHS, DOH as provided in the DOH AO No. 21, s. 1996 dated 04 June 1996	
Supplier must provide orientation training for users and maintenance personnel of the hospital	
Certification of manufacturer guaranteeing the availability of all spare parts for the next ten (10) years	
Inventory of spare parts for the unit/model offered duly signed by the principal	
Certification that the supplier has the capability for corrective and preventive maintenance of the unit	
Certificate/s of training for engineers/maintenance service personnel in model offered	
Certificate of sole distributorship from the unit manufacturer mentioning the name of the Philippine representative	
Certification of manufacturer guaranteeing delivery of equipment and all accessories	
Delivery together with the x-ray unit of the following: <ul style="list-style-type: none"> • One (1) pc circuit breaker • One (1) pc extension board for troubleshooting • Three (3) pcs per lamp for indicators of all x-ray parameters with pilot lamp 	
The unit should conform to the International Electrotechnical Commission (IEC) standards or its equivalent	
Certificate of Philippine Securities and Exchange Commission (SEC) registration	
Certification of guaranteed uptime for the equipment offered	
The supplier must submit the original brochure.	
Supplier to submit cost of service contract for parts and labor after the warranty period	
Supplier must provide and install dedicated grounding system for the x-ray unit	
Supplier must be accredited as a supplier of x-ray equipment by the DOH Accreditation Committee for Medical Equipment	