

Item	Product Commodity	Item description	Quantity	Tech Specs attached Y/N	Radioactive Item Y/N
1	Radiology QA/QC equipment	Radiology QC multimeter: For (kVp, HVL, dose, dose rate, time and total filtration) with electrometer and appropriate detectors for Radiography, fluoroscopy, angiography, dental (intraoral/panoramic), mammography, CT. Additionally: <ul style="list-style-type: none">• CT chamber / probe• mA / mAs measurement probe• Notebook PC (if required)• Carrying case	1	N	N
2	Radiology QA/QC equipment	Calibrated photometer for diagnostic radiology: Auto ranging photometer, designed to measure both luminance of medical B/W display devices and illuminance.	1	N	N
3	Radiology QA/QC equipment	Pressurized ionization chamber survey meter: Pressurized ionization chamber survey meter, with digital display, for measurement of gamma and x-rays above 25 keV. - Measurement of dose rate, integrated dose, peak dose. - Measurement range from background to at least 50mSv/hr (in different ranges/scales). - Response time less than 5s for the smallest range.	1	N	N
4	Radiology QA/QC equipment	Radio/fluoroscopy test plate/phantom: Test device (with suitable absorber) for radiography and fluoroscopy, for the evaluation of: <ul style="list-style-type: none">• Field geometry and alignment• Field size• Contrast resolution• Spatial resolution	1	N	N
5	Radiology QA/QC equipment	CTDI phantom: Nested phantom (16cm/32cm) with length more than 15cm for CTDI measurement.	1	N	N
6	Radiology QA/QC equipment	Kerma Area Product meter: Kerma – area product meter to directly measure the Kerma and the Kerma-Area Product in the Diagnostic Radiology energy range, consisting of: - Appropriate transparent detector - Separate electrometer - Connection and power cables. - Rails and adaptors for the major X-ray manufacturers.	1	N	N
7	Radiology QA/QC equipment	Sensitometer for medical imaging: Sensitometer for films, suitable for use with radiography and mammography films. Dual color (blue/green). 21 steps.	1	N	N
8	Radiology QA/QC equipment	Densitometer for medical imaging: Densitometer for films, suitable for use with radiography and mammography films. <ul style="list-style-type: none">• max OD of at least 4.0• measuring aperture(s) less than 2mm• film for system calibration	1	N	N
9	Radiology QA/QC equipment	Mammography Phantom: Complete phantom for routine QA (and/or accreditation) in mammography (screen-film/CR/DR). The phantom shall be able to provide breast equivalent absorption for direct use in mammography units and allow the evaluation of: <ul style="list-style-type: none">• system low high contrast resolution• system high contrast resolution (5-20lp/mm)• Field size at the thoracic wall• Image uniformity• Contrast to noise ratio, SDNR• MTF	1	N	N
10	Radiology QA/QC equipment	PMMA plates for AEC evaluation: PMMA plates of 1 and 2 cm (min. dimensions 30cm x 30 cm). Total thickness more than 20 cm.	1	N	N
11	Radiology QA/QC equipment	Set of star patterns: Set of three star patterns with angles 0.5, 1.0 and 2.0 degrees for measurement of focal spot sizes from 0.1 to 2.0 mm.	1	N	N
12	Radiology QA/QC equipment	CT performance phantom: CT performance phantom to allow the evaluation of at least the following: <ul style="list-style-type: none">• light/x-ray field alignment• modulation transfer function• image uniformity and noise• HU linearity with at least 6 materials• slice thickness• high contrast resolution up to 20lp/cm• low contrast resolution• pixel size	1	N	N