

**CLIENT NAME:**

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MEMORIAL HOSPITAL ,  
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RESEARCH CENTER, SHIRPUR**

**RADIOLOGY TENDER**

**TENDER DOCUMENT:**

**SVKM/TMPMH/ Mobile X-ray, /005**

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## SECTION 2 – SPECIFICATIONS

### 1. MOBILE DR X-RAY UNIT (150mA)

Supply and installation of a compact, lightweight, easily transportable mobile Radiographic unit suitable for bedside X-ray forward patients, trauma, intensive care Units, operation theaters and also in the Radiology department for conventional Radiography. Generator and Tube offered should be from the same Manufacturer/Principal manufacturer.

The unit must have following features:

#### 1.1 The Generator:

- Must be microprocessor controlled high frequency, output 10 KW or above to give a constant output suitable for radiography.
- It should have a digital display of mAs and KV with two-point technique and an electronic timer.
- KV range: Maximum range should be 125 KV
- MA range: 150 MA or more
- Exposure time – 4ms or less
- It should be capable of delivering upto 125 mAs in different steps.
- The generator should be capacitor charged.

#### 1.2 X-Ray Tube:

- Output should match the output of the generator.
- Should have rotating anode tube.
- Please specify the Focal spot size, anode rotation per minute, filtration provided by the tube
- Collimator: The collimator available in the equipment should have 95 W lamp for clear visualization of the area of interest in open areas like wards/ICUs. It should have auto shut off facility to ensure longer life of the Collimator lamp.
- The unit must have an effective braking system for parking, transport and emergency braking. The tube stand must be fully counterbalanced with rotation in all directions.
- It must have an articulated arm for maximum positioning flexibility in any patient position. The angles in various planes and the maximum distance till which the tube can be extended from the stationary machine are to be specified by the manufacturer.
- All cable should be concealed in the arm system
- The exposure release switch should be membrane type and detachable with a cord of at least 5 meters.
- There should be Cassette storage box to store at least 4-6 cassette.
- The equipment should be light weight (please specify weight) and the unit with Minimum foot print will be given preference.
- The equipment should not weight more than 200 kg.
- The height of the unit (the column stand) should be less than 150 cm for easy transportation in the lift etc. and areas with small height doors.
- Unit should operate on single phase 230 Volt, 15 Amp plug without any external transformer.
- 100 W Light source halogen lamp should be available.
- AERB Certified