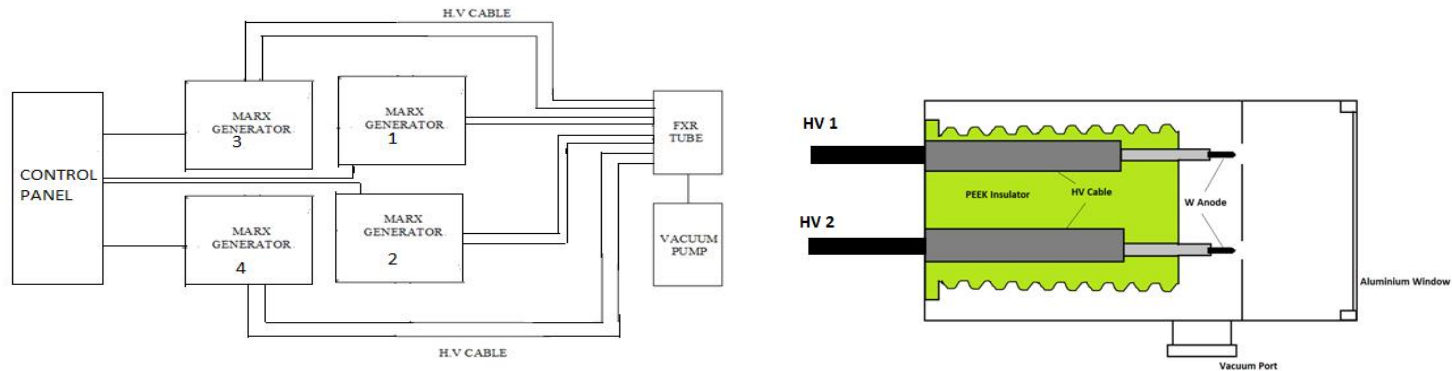


500 keV MULTIPIN FXR TUBE

1. INTRODUCTION

- The main objective was to design and develop 4 pin Flash X-ray system upto 500 keV end point energy for dynamic radiographic applications.
- Four 500 kV HV pulses from 4 pulsed power sources (MARX generators) are applied via 4 high voltage cables to a multipin FXR diode to generate electron beams and subsequent hard X-rays from the high Z anode rods. The time delay between these pulses can be varied from microseconds to milliseconds.



Block diagram of FXR System and 4-pin diode schematic (side view)



Photograph of multi pin FXR tube