

Annexure 1

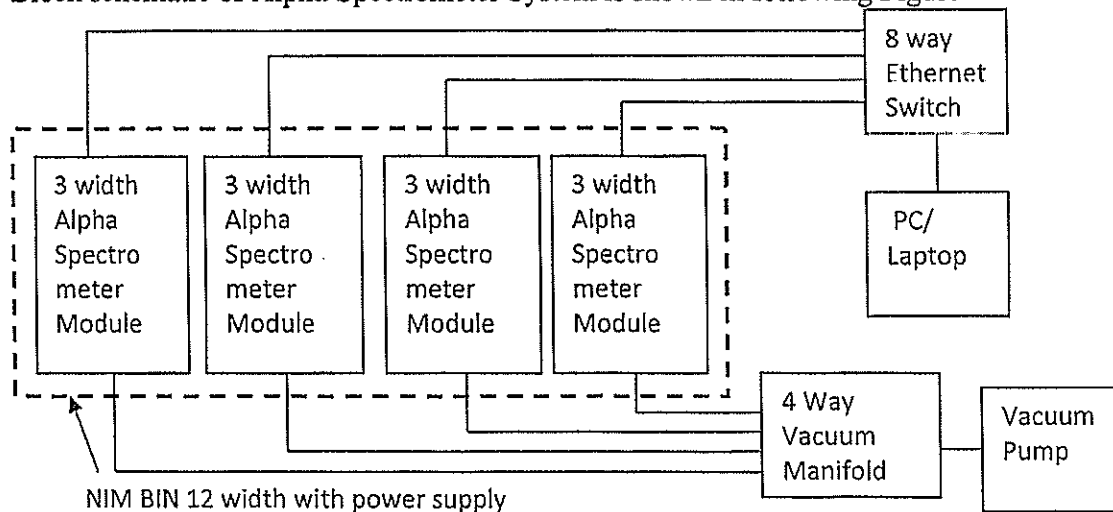
Material description:

1. PARA Alpha Spectrometer (4 Chamber), Model: PAS-01-4 or equivalent
2. Vacuum pump with connection kit, required for PARA Alpha Spectrometer
3. Desktop (All in one), Model: Dell Inspiron 24 3464 or equivalent

1. PARA Alpha Spectrometer System (4 Chamber)

- Vacuum Chamber and 3 way vacuum valve
- 450 mm² Silicon Detector
- Charge Sensitive Preamplifier
- Detector Bias Supply (0-100V)
- Spectroscopy Amplifier
- 2K MCA with USB interface and Alpha Spectrum Acquisition and Analysis software
- Resolution better than 25 Kev for Am-241
- Four Alpha Spectrometer Modules, Model PAS-01 or equivalent with built in digital vacuum gauge
- Display High Voltage and Vacuum on LCD
- NIM Bin 12 width to accommodate 4 nos of Alpha Spectrometer Modules
- +/- 12V, +5V Power Supply mounted on the back of NIM BIN
- Vacuum Pump 150 LPM
- 4 way vacuum manifold
- 8 way Ethernet Switch for communication of PAS-01-4 to PC/Laptop
- Spectrum Acquisition Software compatible with Windows 7/ 8 / 10

Block schematic of Alpha Spectrometer System is shown in following Figure



2. Vacuum Pump

- Rotary Vane Vacuum Pump (230V, 50Hz) with inlet and exhaust NW2.5 flange and EMF10 Oil Mist Filter.
- Vacuum connection kit comprising Hose pipe, KF25 and KF16 clamps etc.
- Vacuum Measurement system inside chamber.

3. Desktop (All in one)

- Model: All in one desktop, Dell Inspiron 24 3464 or equivalent
- Processor: 7th Generation Intel® Core™ i5-7200U Processor
- Operating System: Windows® 10 Home Plus Single Language (EM) India Premium Partner Program English
- Microsoft Office: Microsoft Office 2016/2013
- Monitor: 23.8-inch FHD (1920 x 1080)
- Memory: 8GB Single Channel DDR4 2400MHz (8GBx1)
- Hard Drive: 1TB 5400 rpm Hard Drive
- Optical Drive: Tray load DVD Drive (Reads and Writes to DVD/CD)
- Ports: Rear-(2) USB 2.0, RJ-45, Audio Line Out, DC power, (1) HDMI-in
Side - (2) USB 3.0, 4:1 MCR, (1) Microphone/Headset jack
- Slots: 2 DIMM Slots
- Power: 65 Watt AC Adaptor -for UMA/90 Watt AC Adaptor for dGPU
100-240 V AC, 50-60Hz
- Dimensions: Non-Touch panel with easel stand: 576.62mm X 385.33mm X 61.8mm/
22.70" X 15.17" x 2.43"