

Corrigendum

Tender notice number : SSP/AJP/14/41 dated: 04.09.2014

Updated technical specification of Vacuum coating unit based on turbo molecular pump and oil free rotary pump

1. Thermal coating unit should be fitted with a chamber having a height of 420 mm equipped with see-through removable glass window. The chamber should be equipped with water flow line.
2. Adjustable substrate holder having a separation of 10-30 cm from the filament.
3. Another substrate holder, equipped with liquid nitrogen cooled cold-finger with thermocouple-based temperature meter.
4. Substrate shutter and source shutter (adjustable height) to be operated from outside the belljar.
5. The coating unit should be fitted with two thermal evaporation sources (200 Ampere each) to connect filaments and boats to be operated separately and simultaneously.
6. Substrate holder to accommodate 4 inch × 4 inch substrate. Substrate holder should have two mechanical masks:
 - a. One having openings of 1/8 inch, each separated by 1/8 inch
 - b. Another having openings 1/6 inch, each separated by 1/8 inch
7. An ion cleaning feed through which should be fitted in the evaporation chamber.
8. Appropriate thickness monitor and quartz crystal with water supply connection to measure the thickness. Rate display resolution should be at least 0.01 Å/sec and thickness display resolution should be 0.001 KÅ.
9. Thickness monitor should measure thickness within a range of 0 to 500 nm or above. It should cover metal-density in the range of 0.5 to 25, acoustics impedance range of 0.2-30, and tooling factor (%) of 1-100.
10. Vacuum deposition chamber should be fitted with penning and pirani gauges to measure the appropriate pressures.
11. The turbo molecular pump with appropriate pumping speed. It should be backed by an oil-free rotary pump.
12. The chamber of coating unit should achieve a vacuum of better than 5×10^{-7} mbar.
13. Warranty: 3 years