**Measurement of:** Melting of constituent elements for making an alloy up to a quantity of 5-20 g

**Equipment:** Tri Arc Melter, TA-200-3-2E-CP-RH-LL, 2010

**Property Measured:** Arc melting of metals and alloys

**Photograph (small size)**

**Basic Principle:** Electrical arc generally used to melt the constituent elements for making an alloy. The arc melting furnace consists of a hearth (made up of copper) with cups of one electrical polarity and the opposite polarity consists with electrodes. Constitute elements to be melted are kept in a cup of the hearth and the electrodes are used to strike the arc for melting the material.

**Capabilities:** Arc melting of metals and alloys granules/ingot/sponge etc.

**Sample Requirement:** Pellet or metal pieces