

**Name of equipment:** Flow Cytometer

**Make:** BD Biosciences

**Model:** BD FACSAria II

**Working Principal:** Flow cytometry is a process of measurement and analysis of multiple characteristics of cells or particles (0.2 to 150 $\mu$ m) in liquid suspension as they pass through a beam of light. Fluorescently labelled cell components are excited by the laser to emit light at varying wavelengths which is measured by detectors to determine the characteristics (amount and type) of the cells present in a sample.

**Application of Equipment:** Flow cytometer is used to characterise and analysis of cells, Bacteria, chromosomes and beads in liquid suspension. Flow cytometry is used to perform several procedures including:

1. Cell counting
2. Cell sorting
3. Detection of biomarkers
4. Protein engineering

**Instruction for Use:**

**Fees for Use:** ( Please put tentative fees for use we may have to approach ICMR for approval)



**Figure: Flow cytometer.**