MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR-05

(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)

Department of Chemical Engineering

Fluid Particle Mechanics Lab

- 1. To analyze the given sample by differential, cumulative methods using standard screen.
- 2. Determination of size and surface area of irregular particles using a measuring gauge.
- **3.** To study the crushing behavior and to determine the Rittinger's and Bond's constant of the given solid in a jaw crusher.
- **4.** To study the crushing behavior and to determine the Rittinger's and Bond's constant of the given solid in a ball mill.
- **5.** To study the crushing behavior and to determine the Rittinger's and Bond's constant of the given solid in a hammer mill.
- **6.** Determination of mixer effectiveness and mixing index of given slurries.
- 7. To study the filtration behavior of a given slurry using a Plate and Frame Filter press.
- **8.** To study the filtration behavior of a given slurry using a leaf filter press.
- 9. To study the filtration behavior of a given slurry using a rotary drum filter press.
- **10.** To study the characteristics of liquid-solid fluidized bed.
- 11. To study the characteristics of gas-solid fluidized bed.
- 12. Study of gas/liquid solid cyclone separator and to evaluate the separation efficiency.
- 13. To study the performance of a Dorr Thickener.