3. OBJECTIVE OF THE STUDIES

The main Objective of the present study will be to control the base pressure with Micro jets at subsonic and sonic Mach Numbers for area ratio 1.96, 2.56, 3.24, 4, 4.84, and 6.25. We will also study the effects of variation with the Nozzle Pressure Ratio.

Scope and Significance of the Study

- To have an idea of base drag reduction.
- To understand and enhance the mixing in cross flow, (i.e. in combustion Chamber where we are interested in reducing the base pressure as low as Possible)
- Application of sudden expansion as a Vernier Rocket or Parallel Diffuser for cruise correction for the Rockets.