## POWDER METAL FORMING / POWDER METALLURGY.

Science of producing metal powders and making binished [ semi-finished objects from mixed or alloged powders without the addition of nonmetallic constituents.

# Steps in Powder Metallurgy.

- 1) Powder production
- 2) Mining & Blending of Powden.
- 3) Compaction.
- 41 Sintering.
- 5.1 Secondary brocks.

#### Advantages

- 1) Good surface finish.
- 2) High dimensional accuracy.
- 3) Less skilled Labour is required.
- 4) Most of the cases, no further machining is done.
- 5. Used for mass production.
- 6) Even ceramics or abrasives can be used which conit in cesting.

#### Limitation

- Whigh Initial Investment
- 2) Economical only on mass broduction.
- 3) Large size components can not be manufactured.

### Application.

- 1) Tungsten Carbide tool tibs.
- 2) Tungsten incadescent bulbs.
- 3) Self-Lubricating bearings. (oil impregnation)
- 41) Automobiles (Piston rod, gears)