

### **Advantages for innovation used as projectile gun:**

- As there is only Bullet part involved in our system as a projectile. there is cost and weight saving compared to existing systems.
- weight saving in our system is about 65% for carried projectile compared to cartridge used in currently existing system.
- Cost saving compared to existing system is around 60% for the projectile.
- As there is no gunpowder involved so heating of barrel and system is reduced up to 80 to 90%.
- Still there will be heating of barrel due to friction with rifling during projection and other frictional interactions in system.
- Less heating in barrel also increases the barrel lifespan in our system.
- In our system there will be less recoil as there is no explosive charge used.
- The barrel length could be minimized up to 50%. So shorter barrels are used in our system. (Note: larger barrels are needed to lead gunpowder's full combustion create gases as Bullet is travelling through barrel. More time the bullet in barrel more potential of gunpowder is utilized and higher velocity of projectile in existing system.)
- Due to the cheaper bullets or projectiles, operating cost of weapon during firing decreases about 50 to 60 %.