**Brief Technical Description: 250kg Prefragmented Bomb**

**General Construction**

 The 250kg Prefragmented Bomb comprises of a FRP Prefragmented Module which is assembled in an outer metallic steel body, termed as Bomb Body Assembly. The Module has steel spheres which are embedded in resin mix, in 3 layers, in between 2 layers of E-Glass filament wound FRP casings and 2 layers of E-Glass fabric wrapping. These steel spheres act as pre-formed fragments. The Module is filled with High Explosive. The bomb is fitted with Proximity Fuze which initiates the bomb at a pre-determined height above the target to achieve the optimum lethal performance. The bomb has provision for both 250mm and 14” suspension lugs to be compatible to all MiG variants, Su-30MKI and Jaguar aircrafts.

**Figure: 250 kg PF Bomb General Construction**

The salient features of the indigenous 250kg Prefragmented bomb are given below:

* Bomb Diameter : 325 mm
* Bomb Length : 1425 mm
* Bomb Mass : 250kg
* Pre-fragments : Steel Balls
* HE Filling : Dentex

**Lethality:**

The bomb is effective against targets such as Parked Aircrafts, Light Armoured Vehicles, Troop Concentration etc.

**Current Status:**

The design and development of the bomb has been completed and the bomb has been successfully inducted into IAF for release from Su-30MKI aircraft. Final clearance for induction for Jaguar Aircraft is likely to come by Dec 2018. The bomb is under production at OFB.