

(a) Technology for Manufacture of Indigenously Developed HMX/ PU Based High Explosive Composition for Warhead.

(b) Technology for In- Situ Filling Process of Warhead

Description of Technology:

Pressable plastic bonded explosive (PBX) compositions have an edge over conventional wax based compositions in terms of thermal stability and mechanical properties. Thus, filling of PBX based compositions in munition casing by in-situ pressing technique would give improved terminal effect besides added thermal & mechanical stability as required in air to air missile applications.

An indigenous HMX/PU based high explosive pressable composition has been developed with a high filling density of 95% TMD. This composition is utilized for filling of large calibre warhead casing of Missile System using in-situ pressing technique.

Application Areas:

Preparation of HMX/PU based high explosive compositions for in-situ filling of missile warhead capable of neutralizing aerial targets like fighter aircrafts etc. through high velocity fragments.