

TOT for Propellant, Igniter and Small Explosives of Dual Pulse Propulsion

Dual pulse propulsion system comprises of two rocket motors designated as pulse-1 and pulse-2. Reduced smoke, high energy composite propellant is developed for pulse-1 rocket motor and high burning rate propellant is developed for pulse- 2 rocket motor. For ignition of rocket motors, igniters containing boron based pyrotechnic composition (torch type for pulse-I and disc type for pulse-2) and small explosives (detonators, TBI and explosive bolt) are also developed for both the rocket motors. The performance of propellant, igniter and small explosives has been successfully demonstrated in several static and flight tests. The manufacturing technology of propellant , igniter and small explosives of dual pulse propulsion is established.

Now this technology is completely matured and the same can be transferred to production agencies for further requirement.