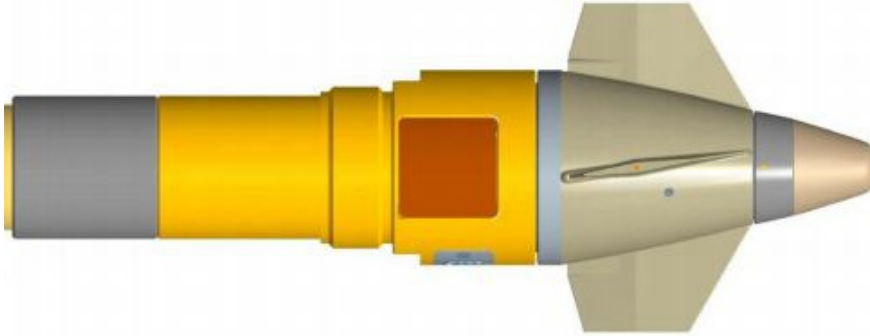


AMMUNITION

Precision Guidance Kit



Fitment of PGK on existing ammunition improves accuracy (CEP- Circular Error Probability) of the Ammunition from 250 to 50 Mtrs. OFB has associated with DRDO from design stage to develop PGK for 155mm Ammunition.

'PGK' conceived, Global Positioning System (GPS)/Inertial Navigation System (INS)-guided, Extended-Range artillery projectile. The design effort involves a total redesign of ammunition including shell, fins and Canards and miniaturization of electronics. Gun fired shells experience shocks which are of the order of 15000g and are almost 100 times that of rockets and missiles.

Till now this technology is available only with the selected companies of the western nations.

Electronic Fuze

Electronic Fuzes are required for 155 mm, 130 mm and 105 mm Guns (L118) of Indian Army, which is presently using mechanical fuzes. The electronic fuze will be fitted in the existing artillery shells without modification of the shell.

OFB is developing electronic fuze in association with DRDO, BEL and IIT Mumbai.

The varieties of the fuzes being developed are:

- a. Percussion Fuze (PD) - instantaneous burst upon hit.
- b. Time Fuze - burst after a programmed delay.
- c. Proximity Fuze - burst upon sensing the distance / nearness to the target.

Development work has been taken-up for the 03 type of in-service ammunitions.