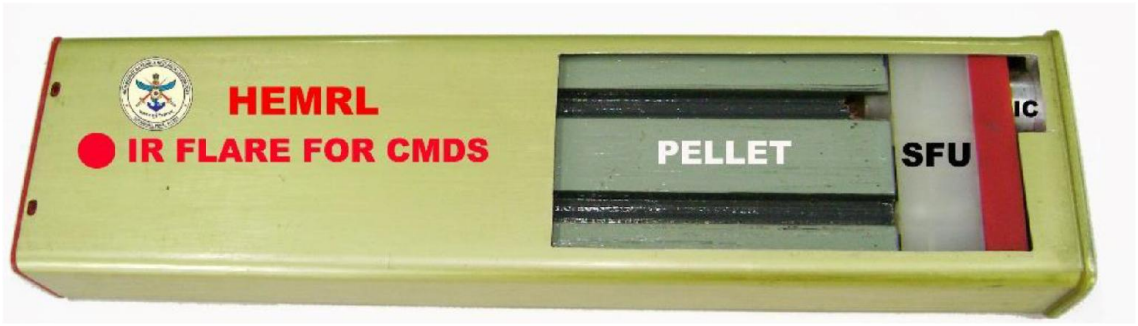
IR Flare for CMDS

IR flare for CMDS is a 2" x 1" x 8" size cartridge, which produces an intense IR radiation in the desired waveband for more than 3.5 s duration on initiation. The IR Flares are used to save the fighter, transport and helicopters from IR guided missiles (both surface to air and air to air threats). The Flare has an electrically operated Impulse cartridge (IC). Once electrical pulse is provided by the aircraft, the IC functions and produces a flash and gas pressure is generated over the Safety and Functioning Unit (SFU). The SFU has a spring loaded slider. Once the SFU along with the flare pellet is ejected out of the container, the flash is provided to the flare pellet which ignites in the air producing very intense IR radiations. The container is made up of aluminium alloy. The flares are placed inside the dispenser which is fitted on the aircraft. Once inducted, the IR flare for CMDS will be utilized for self protection in hostile environment by the various aircrafts like Bison, Jaguar, MiG-27, Embraer and Mirage-2000 of Indian Air force.

Specifications

Flare	
Operating Temperature:	-46°C to +76°C
Exposure Temperature:	-65°C to +85°C
Ejection Velocity:	25 to 50 m/sec
IR Output (3-5µm):	20kW/sr min. @ 0.2s
Minimum Burn Time:	3.5 secs
Weight:	380g
Length:	206mm
Cross Section:	54mm x 27mm
Impulse cartridge	
'No Fire' current:	1 Amp / 1 Watt for 5min
'All Fire' Current:	>4.5 Amps @ 15-28 V
Pre Fire Resistance:	1.00 ± 0.1 Ohms



CUT SECTION OF IR FLARE FOR CMDS