



Chaff Technology

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- Chaff technology is **used to confuse missiles with their targets**. Thus, this technology **protects naval ships from enemy radars and radio frequency based missile detectors**. **D.R.D.O. has developed modern chaff technology** to protect against missile attacks.
- Chaff is an electronic technology used for self-defense. **Chaff rockets are virtually inert** and can be destroyed easily. **The chaff is made of many small aluminum or zinc coated fibers**. On the apprehension of threat from a missile, the chaff is injected from the planes into the air to confuse the missile.
- The **Defense Laboratory unit of DRDO at Jodhpur has developed three types of chaff technology**. These are- Long-Range Chaff Rocket (LRCR), Medium-Range Chaff Rocket (MRCR) and Short-Range Chaff Rocket (SRCR). The Indian Navy has successfully conducted test of all three types of rockets in the Arabian Sea.
- This indigenously developed technology is important because it requires a small amount of chaff rockets to be injected into the air as a bait to distract radar-guided missiles from their targets and routes.
- It is known that **flares are also used in aircraft to confuse missiles**, which is suitable for diverting missiles by using heat and energy. For combustion, magnesium pellets are mostly released by an aircraft. **These flares emit excessive amounts of infrared light when ignited**.

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