

## Microwave Obscurant Chaff Rocket

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### About Microwave Obscurant Chaff Rocket:

- Microwave Obscurant Chaff (MOC) is a niche technology developed by DRDO's Defence Laboratory, Jodhpur,
- It **obscures radar signals** and creates a microwave shield around platforms and assets, thus reducing radar detection.
- Special type of fibres, with diameter of a few micrometers and unique microwave obscuration properties, has been assembled in the medium range chaff rocket.
- **How does it function?:** When the rocket is fired it forms a microwave **obscurant cloud** in space spreading over a sufficient area, with adequate persistence time, thus **creating an effective shield** against hostile threats having Radio Frequency seekers.
- **DRDO** has indigenously developed three variants of this critical technology namely **Short Range Chaff Rocket (SRCR)**, **Medium Range Chaff Rocket (MRCR)** and **Long Range Chaff Rocket (LRCR)**.
- **Phases**

- The **Phase-I trials** of MR-MOCR were successfully conducted from Indian Navy ships, demonstrating the **MOC cloud blooming** and being persistent in space.
  - In **Phase-II trials**, the **Radar Cross Section** (RCS) reduction of an aerial target to the extent of 90 per cent has been demonstrated and cleared by the Indian Navy.
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## Q1: What is Radiation?

It is energy that moves from one place to another in a form that can be described as waves or particles.

**Source:** [DRDO hands over Medium Range-Microwave Obscurant Chaff Rocket to Indian Navy](#)

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Source: <https://vajiramandravi.com/current-affairs/microwave-obscurant-chaff-rocket/>

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