



**KAMARAJ IAS ACADEMY**  
Only IAS Academy by Grandson of "Per. unthalaivar" Kamarajar"

# Green crackers

Published On: 10-09-2024

## Why in news?

Delhi government imposes *ban on all types of firecrackers* till January 1 to *control air pollution during the winter season*.

## What are green crackers?

Green Crackers are fireworks that are healthy to the environment and can lessen the air pollution that conventional firecrackers produce.

The **Council for Scientific and Industrial Research (CSIR)** created these.

These green crackers, designed by the **National Environmental and Engineering Research Institute (NEERI)**, a CSIR lab, contain flower pots, pencils, fireworks, maroons, bombs, and chakkar.

## How are they made?

Green crackers, also **known as eco-friendly crackers**, are made from alternative raw materials to have a smaller negative impact on the environment and to pose fewer health hazards.

It has been stated that green crackers are environmentally friendly because they **don't contain aluminum, barium, potassium nitrate, or carbon**.

Green crackers are **30% less polluting** than regular ones.

Green crackers have **less or no barium**, and that the chemical barium nitrate is what causes the smoke and emissions.

In addition to lowering air pollution, green crackers are said to have **lower sound level** than the ordinary crackers—**between 110 and 125 decibels as opposed to roughly 160 decibels** for conventional crackers.

Despite all of their benefits, these environmentally friendly firecrackers are **more expensive than standard ones**.

## Types of green crackers

### (1) SWAS – Safe Water Releaser

They will **discharge water vapour** into the atmosphere, which will dampen the discharged dust.

It **won't contain sulphur or potassium nitrate**.

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There will be a release of a diluent for gaseous emissions.

There will be a 30% reduction in the amount of particle dust emitted.

**(2) STAR – Safe Thermite Cracker**

**Does not contain sulphur and potassium nitrate**

Discharge of less particulate matter

Lowered noise level

**(3) SAFAL – Safe Minimal Aluminum**

**Does not contain sulphur and potassium nitrate**

Discharge of less particulate matter

Lowered noise level as compared to traditional ones