



सत्यमेव जयते

Govt. of Puducherry

Department of Science, Technology & Environment

SPECIAL  
EDITION



## "Happy & Eco-friendly Diwali" – Comic Version



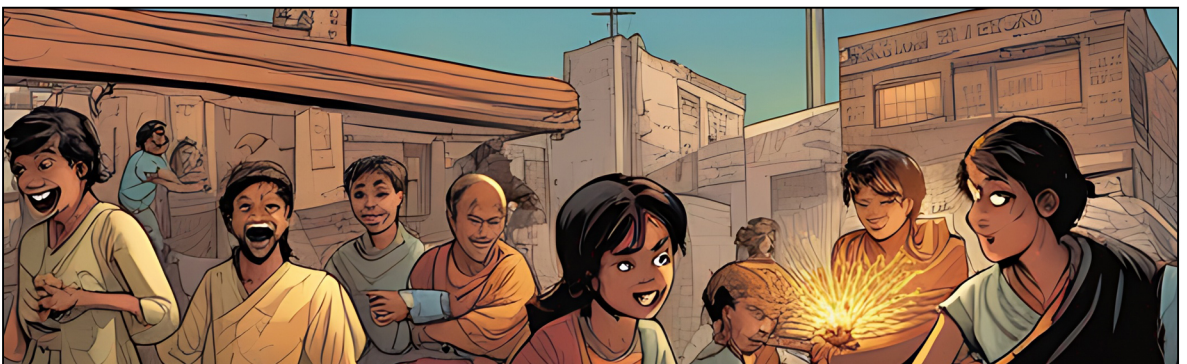
**EIACP - PC HUB, PUDUCHERRY**

Environmental Information, Awareness, Capacity Building and Livelihood Programme

Hosted at Puducherry Pollution Control Committee

Supported by Ministry of Environment, Forest & Climate Change,  
GoI, New Delhi







Child observing the pollution caused by fireworks.







"Why can't we celebrate Diwali without polluting the environment?"

Green crackers are dubbed as 'eco-friendly' crackers and are known to cause less air and noise pollution as compared to traditional firecrackers.

These crackers were first designed by the National Environmental and Engineering Research Institute (NEERI), under the aegis of the Council for Scientific and Industrial Research (CSIR) in 2018.

Most green crackers **do not contain barium nitrate**, which is the most dangerous ingredient in conventional crackers.

Green crackers **use alternative chemicals such as potassium nitrate and aluminium** instead of magnesium and barium as well as carbon instead of arsenic and other harmful pollutants.



"On that day, during the EIACP Puducherry webinar, I heard about 'green crackers'."



### How can one Identify Green crackers?

**SWAS – Safe Water Releaser:** These crackers do not use sulphur or potassium nitrate, and thus release water vapour instead of certain key pollutants. It also employs the use of diluents, and thus is able to control particulate matter (PM) emissions by upto 30%.

**STAR – Safe Thermite Cracker:** Just like SWAS, STAR also does not contain sulphur and potassium nitrate, and besides controlling particulate dust emissions, it also has lower sound intensity.

**SAFAL – Safe Minimal Aluminium:** It replaces aluminium content with magnesium and thus produces reduced levels of pollutants.



All three brands of green crackers can currently only be produced by licensed manufacturers, approved by the CSIR. Furthermore, green crackers can be differentiated from conventional crackers in retail stores by a green logo printed on their boxes, along with a Quick Response (QR) coding system.



**"The next day, children are discussing about the celebration of a Green Diwali."**



**"Children are starting to take a pledge."**

- We will keep our houses and neighbourhood neat and clean.
- We will decorate our houses with flowers, by lighting earthen diyas and candles.
- We will avoid burning harmful crackers on this Diwali to keep the atmosphere pollution free.
- We will distribute sweets, saplings and celebrate the Diwali with responsibility and compassion.
- We shall all jointly contribute towards healthy and cleaner environment.









"The day following Diwali"



"And so, Green Diwali was born – a celebration of tradition with a touch of eco-friendliness!"



*Happy Diwali*  
**Pollution Free**




"The city was cleaner, and everyone had a Happy!"






"Join us in celebrating Green Diwali! Let's light up the world while keeping it green."












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**LIFE**  
Lifestyle for Environment



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