

Frequently asked questions:

1. What is green cracker?

Ans. Fireworks/firecrackers made with reduction in size of shell, elimination of ash usage etc., reduced usage of raw materials in the compositions, of uniform acceptable quality, and/or use of additives as dust suppressants to reduce emissions with specific reference to particulate matter (PM*) [SO₂ and NO₂] leading to:

- a minimum of PM reduction of 30 %
- a minimum of PM reduction of 20% and rest 10% of gaseous emission (mass of gases emitted based on composition) or more reduction of gaseous emission (mass of gases emitted based on composition)
- All of the above reduction shall be based on when compared with conventional composition for a given category of crackers/fireworks

Source : CSIR-National Environmental Engineering Research Institute(CSIR NEERI)

2. How to identify “Green Crackers”?

Ans. The identification may be done by seeing the CSIR NEERI Logo. The scanner may be downloaded using ‘CSIR NEERI Green QR Code app’ from Google Play Store.

3. What is the difference between “Conventional Firecracker” and “Green cracker”?

Ans.

| Green Fire Cracker | Conventional Firecracker |
|--|---|
| Definition: Green crackers do not contain harmful chemicals and reduce air pollution. They are eco-friendly. That is green crackers are less harmful as compared to conventional firecrackers | Fireworks is a device which contains gunpowder and other combustible chemicals which causes striking effects and when ignited they explode. |
| Composition: Green crackers include flower pots, pencils, sparklers, maroons, bombs, and chakkar, low Thermite amount, minimum usage of Aluminium. Green crackers don't contain barium substance which is used in the firecrackers to add green colour. Green crackers will reduce at least 30 percent emissions using particulate matter Potassium Nitrate as an oxidant. | Composition: 1. Fuel: Black powder, 2. Oxidising agent: Nitrates, Chlorates, perchlorates 3. Reducing agent: Sulphur and Charcoal 4. Regulators: Metals 5. Coloring agents: Strontium, Copper, Barium. Sodium, Calcium, Iron 6. Binders: Dextrin (e.g.: Starch) |

6. Is there any Court Order relating to “Green Crackers”?

- A. Supreme Court
- B. National Green Tribunal

Ans. Yes.

- A. Hon’ble Supreme Court of India vide Judgement dated 23.10.2018 passed in Writ Petition (Civil) No. 728 of 2015 allowed to manufacture and sale green crackers.
- B. Hon’ble National Green Tribunal vide order dated 09.11.2020 and 01.12.2020 passed in O.A. No. 249/2020 directed use of green crackers in cities/towns where air quality is moderate or below.

7. Is there any Website for further information in this regard?

Ans. Yes, the following are the two links where further information may be obtained.

1.[https://www.neeri.res.in/abouts/details/green-crackers#googtrans\(en|en\)](https://www.neeri.res.in/abouts/details/green-crackers#googtrans(en|en))

2.[https://www.neeri.res.in/contents/banner_details/green-crackers/5d81cbdbbc313#googtrans\(en|en\)](https://www.neeri.res.in/contents/banner_details/green-crackers/5d81cbdbbc313#googtrans(en|en))