



Solution # 2:

High oleic acid varieties, ICG 15083 (Girnar 4) and ICGV 15090 (Girnar 5) of groundnut for consumer health and food industry benefits.

Submitter: (ICRISAT)

Solution Overview

The food processing industry prefers high-oleic acid (HOA) groundnut varieties because of their longer shelf-life benefits, and are willing to pay a premium price. This, in turn, further increases the profits of all value chain actors. Additionally, HOA groundnuts offer health benefits to consumers by reducing the risk of cardiovascular diseases.

The innovation contributes to SDG 2 (Zero Hunger) and SDG 3 (Good Health and Well-being)

Key Features & Benefits

- High oleic acid groundnut varieties, ICGV 15083 (Girnar 4) and ICGV 15090 (Girnar 5), released in India, offer consumer health benefits and increased shelf-life benefits to food processors and export markets.
- The oleic acid content in these varieties is ~80% of the total fat that confers the above benefits.
- Increased net profit to farmers, as these varieties have high pod yield and tolerance to drought and diseases.
- Economic benefits as the food-processing companies are willing to pay a premium price for high oleic acid groundnut commodity.

Where It Works and Where It Can Work:

The high oleic acid (HOA) groundnut varieties, ICGV 15083 and ICGV 15090, have been tested in India and released for cultivation in 2020 as Girnar 4 and Girnar 5 in India. Later, these were tested in Senegal by M/s Agrocrops and in Myanmar by DAR and the Syngenta Foundation for Sustainable Agriculture (SFSa), and were found to be suitable for cultivation and superior in agronomic performance.

Evidence & Impact

The agronomic performance is described by Agrocrops who are playing a critical role in seed and commodity supply chain of the two high oleic groundnut varieties, ICGV 15083 and ICGV 15090.

<https://www.agrocrops.com/en/peanuts-quality/best-peanut-varieties-for-premium-peanut-oil>

Scalability & Adoption Support

M/s Agrocrops is working in scaling these varieties in India and Africa, and the products are market ready for scaling.

Partners & Contact Info

Key Contact:

Janila Pasupuleti

Janila.pasupuleti@icrisar.org



