

# Surya Nutan

June 23, 2022

**In news-** IndianOil and the Ministry of Petroleum & Natural gas have developed an indigenous Solar cooktop “Surya Nutan”.

## What is Surya Nutan?

- Surya Nutan is a **Stationary, rechargeable**, and always kitchen-connected **indoor solar cooking**.
- This is a **patented product designed and developed by IndianOil R&D Centre, Faridabad**.
- It **offers an online cooking mode while charging through the Sun** which maximizes the system efficiency and ensures high utilization of energy from the Sun.
- **It works in a Hybrid Mode** (i.e. can work on both solar & auxiliary energy sources simultaneously) which makes the Surya Nutan a **reliable cooking solution for all weather conditions**.
- The insulation design of Surya Nutan **minimizes radiative and conductive heat losses**.
- Surya Nutan is available in three different models:
  - The premium model (Breakfast +Lunch+Dinner) of Surya Nutan can cook all the meals for a family of four.
  - Initially, the cost of the product is around Rs 12,000 for the base model and Rs. 23,000 for Top Model.
  - At a price of Rs. 12,000-14,000/- for Top Model, assuming annual consumption of 6-8 LPG cylinders, this product can pay back the buyer in the first 1-2 years itself.
- All the **safety aspects required in any indoor appliances are inbuilt in** Surya Nutan and is a **low-maintenance system and the product has a long life**.
- It is a modular system and can be designed in different sizes as per the requirement.
- ‘Surya Nutan’ follows a series of other steps being taken by the Ministry of Petroleum & Natural Gas in the

current global energy crisis, including increasing ethanol blending to 20%, increasing the procurement price of Compressed Bio-Gas under the SATAT Scheme from Rs 45/kg to Rs 54/kg, drastically increasing the area under Exploration and Production to 15% of geographical area from current 7-8% and aggressively pursuing Green Hydrogen Mission in our refineries.