

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH**

**LOK SABHA
UNSTARRED QUESTION NO. 1720
(TO BE ANSWERED ON 08.12.2021)
SMOKELESS SOLAR GAS OVEN**

1720. SHRI SISIR KUMAR ADHIKARI:

Will the Minister of **SCIENCE AND TECHNOLOGY** विज्ञान एवं प्रौद्योगिकी मंत्री be pleased to state:

- (a) whether CSIR has invented smokeless solar gas oven through one of its laboratories,
- (b) if so, the details of invention and plan of the Government in marketing of such solar smokeless gas oven thereof; and
- (c) whether the Government is planning to substitute this solar gas oven with LPG cylinder to the remote, rural and tribal families; and
- (d) if so, the proposal details therein and if not, the reasons behind thereto?

**ANSWER
MINISTER OF STATE (INDEPENDENT CHARGE)
SCIENCE AND TECHNOLOGY AND EARTH SCIENCES
(DR. JITENDRA SINGH)**

(a)&(b) Yes, Sir. One of the constituent laboratory of CSIR, namely, CSIR-Central Mechanical Engineering Research Institute (CSIR-CMERI), Durgapur has developed a Solar Energy based Cooking System (Solar Chulha). The Institute has developed following three types of solar energy based cooking systems (Solar Chulha):

- i. Solar PV energy based electric cooking system;
- ii. Hybrid solar PV and Biogas cooking system; and
- iii. Solar assisted improved biomass cooking system.

Technology of solar PV energy based electric cooking system has been transferred to two industries on non-exclusive basis for production and commercialization.

In order to popularize solar energy based cooking system, the technology is demonstrated in many occasions and webinar / training programme are organized by the Institute. Further, the details of the technology is also uploaded on the Institute website (<https://www.cmeri.res.in>) for mass awareness. The technology is available for further licensing.

(c)&(d) No, Sir. There is no plan to substitute this solar gas oven with LPG cylinder to the remote, rural and tribal families. However, the government is promoting use of Solar Chulha in the country through different measures for its fast and wider adoption.
