

**GOVERNMENT OF INDIA  
SCIENCE AND TECHNOLOGY  
LOK SABHA**

UNSTARRED QUESTION NO:128  
ANSWERED ON:26.02.2002  
DEVELOPMENT OF SMALL TELESCOPE  
ANANDRAO ADSUL

**Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:**

- (a) whether the Indian Scientists are developing a small telescope to study some part of the yet unexplained properties of the sun;
- (b) if so, the time by which it is likely to be taken to place it the telescope in the orbit;
- (c) whether the telescope which is in advanced stage of development, has different instruments to study the sun in great detail at different energy levels; and
- (d) if so, the extent to which the Indian scientists have been successful in developing the said telescope?

**Answer**

MINISTER OF STATE FOR SCIENCE AND TECHNOLOGY (SHRI BACHI SINGH RAWAT)

(a) Yes, Sir. The Physical Research Laboratory, Ahmedabad and Tata Institute of Fundamental Research, Mumbai are developing a small solar X-ray telescope named Solar X-ray Spectrometer to study the flux from the sun in the energy range 4 KeV to 1 MeV during solar flares.

(b) The telescope is scheduled to be placed in orbit during the year 2002-2003 on-board GSAT-2.

(c) Yes, Sir. There will be two instruments to study the total flux from the sun in high spectral and temporal resolution:

(i) Solar X-ray Spectrometer Low Energy Detector: energy range 4 KeV - 60 KeV

(ii) Solar X-ray Spectrometer High Energy Detector: energy range 15 KeV - 1 MeV

These two instruments would help to study the solar disk-integrated flux in a wide energy band.

(d) The Solar X-ray Spectrometer payload development has been completed successfully and the flight model is now being fabricated for final testing and integration.