

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO-141
TO BE ANSWERED ON 02.02.2022

USE OF CYCLOTRON FOR PRODUCTION OF RADIO ISOTOPE

141. MS. RAMYA HARIDAS:

Will the PRIME MINISTER be pleased to state:

- (a) whether Cyclotron is used for the production of Radio Isotope which is used for diagnosis and treatment of cancer and if so, the types of cancer in which this Radio Isotope is used;
- (b) whether the Cyclotron-30, the biggest cyclotron for medical use facility in the country is operational now; and
- (c) if so, the cost incurred in the research and construction of it?

ANSWER

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS
AND PRIME MINISTER'S OFFICE (Dr. JITENDRA SINGH):

- (a) Yes sir. Cyclotrons are used for the production of radioisotopes primarily for diagnostic purpose using Positron Emission Tomography (PET) technique. These PET scans provide diagnosis, staging, recurrence and treatment response to cancer therapy (all types of cancers). It is also used in assessing myocardial viability, brain metabolism studies in neuro-psychiatric cases, infection imaging etc.
- (b)&(c) Yes sir. The cost incurred for the medical cyclotron facility up to 31.12.2021 is Rs. 228.98 crores.

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