

भारत सरकार/Government of India
परमाणु ऊर्जा विभाग/Department of Atomic Energy
विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड/Board of Radiation & Isotope Technology

विआप्रौबोबीएआरसी वाशी कॉम्प्लेक्स/
BRIT/BARC Vashi Complex,
सेक्टर-20/Sector-20, वाशी/Vashi,
नवी मुंबई/NAVI MUMBAI - 400 703.

सं/Ref: विआप्रौबो/BRIT/सत/Vig/संसद/Parl/2021/52

March 10., 2021

Sub: Lok Sabha provisionally admitted Starred Question Dy. No. 9284 reg.

उपरोक्त विषय पर पञ्च के दिनांक 09.03.2021 के ई-मेल की संदर्भ लें। Reference is invited to DAE E-mail dated 09.03.2021 on the captioned subject.

विआप्रौबोर्ड से संबंधित अपेक्षित जानकारी इस प्रकार है। The requisite information in respect of BRIT is as follows:

Sl. No.	Question	Reply
a	The steps taken/being taken by the Govt. to share the technology of production of a variety of nuclear medicines	<ol style="list-style-type: none">1. BRIT has initiated action in December, 2020 onwards, proposing of sharing one of BRIT facility, partially to private agencies for the weekly production of "Column Chromatography Generator Production" by landing the facility for private use (Once a week basis). By doing this the Mo99 /Tc99m Column generator production output can be enhanced and Private agencies also will get trained for future independent production of Radiopharmaceuticals.2. The Technology for the Production of important radiopharmaceuticals, like 18F-FDG for various cancer imaging and 18F-NaF for bone cancer imaging is available which can be shared through Technology Transfer Division, DAE.
b	The measures taken by the Govt. for production of medical isotopes as a part of Atmanirbhar Bharat initiatives for the DAE	<ol style="list-style-type: none">1. BRIT has taken up two projects namely, Advance Facility for Radio Pharmaceuticals Production (AFRP) & Fission Moly Project (FMP) both the projects are intended for production of medical isotope in large scale to achieve the goal of Atmanirbhar Bharat. FMP project will produce 300 Ci/week (6day pre-calibrated) HSA Mo99 (High Specific activity) as API (Active Pharmaceutical Ingredient) for the large-scale production of Mo99-Tc99m Column chromatography Generator. Presently HSA Mo99 is an import dependent API. Under AFRP project BRIT is augmenting I-131 capsule production and I-131 MIBG production both the products for the diagnostic & therapeutic application for the cancer treatment. In addition, the project is also contributing for GMP compliance of various facility. AFRP project is concluding in March, 2021 and FMP will conclude in March, 2022.2. The successful production and supply of 18F-FDG and 18F-NaF to different hospitals are the scintillating achievements towards development of indigenous healthcare tools and techniques for Atmanirbhar Bharat

c	The efforts made/to be made by the Govt. to make India self-reliant in key radio isotopes used in medical and industrial applications	<p>1. BRIT has put up a new project MARPF recently (where in principal clearance received but financial approval awaited). Also, BRIT has proposed a long-term project called IPL B (Isotope Production Lab Building) another project in Vishakhapatnam (Government approval not yet received). Under these projects, BRIT has planned further strengthening of its production capability towards self-reliance.</p> <p>2. Efforts already made to make India self-reliance: production and supply of ^{18}F-FDG and ^{18}F-NaF to different hospitals. Efforts to be made to make India self-reliance:</p> <p>(i) Production of Ga-68 for use in nuclear medicine (for the detection of neuroendocrine tumors and prostate cancers): Developed indigenous methodology for direct production of Ga-68 from enriched Zn-68 electroplated target using DAE 30 MeV Medical Cyclotron, Kolkata, India.</p> <p>(ii) Production of Thallium-201 for use in nuclear medicine (for the detection of myocardial infarction, ischemia etc. and several tumors): Developed indigenous methodology for production of Tl-201, which is possible only using DAE 30 MeV Medical Cyclotron, Kolkata, India.</p>
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यह मुख्य कार्यकारी, विआप्रौबोर्ड के अनुमोदन से जारी किया जाता है। This is issued with the approval of Chief Executive, BRIT.


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