GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO – 710
ANSWERED ON 04.02.2026

HOMI BHABHA CANCER HOSPITALS AND RADIOPHARMACEUTICAL PRODUCTION CENTRES

710. SHRI ANUP SANJAY DHOTRE
SHRI P C MOHAN
SHRI DINESHBHAI MAKWANA
SHRI JAGDAMBIKA PAL
SMT D K ARUNA
SHRI SUKANTA KUMAR PANIGRAHI

Will the PRIME MINISTER be pleased to state:-

(a) the details of the current status and utilization of Department of Atomic Energy (DAE)-supported cancer care facilities including Homi Bhabha Cancer Hospitals and radiopharmaceutical production centres particularly in the State of Odisha;

(b) the details and extent of medical device sterilization blood irradiation and healthcare services enabled through electron beam and gamma irradiation facilities along with the details of institutions and industries benefitting therefrom particularly in Odisha;

(c) the details of recent advancements made in certified reference materials, isotope enrichment and high-purity materials relevant for rare earths, semiconductors and strategic sectors along with the details of such facilities or collaborations operational or proposed particularly in Odisha; and

(d) whether these technologies are contributing to affordable cancer care, improved healthcare, industrial self-reliance, Atmanirbhar Bharat and national security and if so, whether any new projects or additional budgetary support are proposed particularly in tribal and aspirational districts including the State of Odisha?

ANSWER

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

(a) Tata Memorial Centre (TMC) under the Administrative control of Department of Atomic Energy expanded in seven states by establishing 11 Hospital/Institutions to provide the comprehensive cancer care at Mumbai, Kharghar-New Mumbai, Punjab, Varanasi, Vizag, Muzaffarupur and Guwahati. TMC created the facility at Khopoli by tapping Indian

system of medicine for drug discovery and for cheaper and less side effective drugs. Promotion of Indian and Traditional knowledge of Medicine. Cultivation and Conservation of Medicinal plants unique to India and a **200-bed state-of-the-art cancer hospital and research centre** is being established at the **NISER Campus, Jatni (Khurda district), Odisha. The current status and the utilization are as follows:**

Sr. No.	Name of the Hospital	City, State	Date of commissioning	Beds	No. of Patient Registered in 2025	No. of surgeries performed in 2025
1	Tata Memorial Hospital	Mumbai, Maharashtra	1941	650	35705	43208
2	Advanced Centre for Treatment, Research and Education in Cancer (ACTREC)	Navi Mumbai, Maharashtra	2002	500	8970	12588
3	Mahamana Pt. Madan Mohan Malaviya Cancer Centre (MPMMCC) at Varanasi	Varanasi, Uttar Pradesh	19/02/2019	394	25047	4188
4	Homi Bhabha Cancer Hospital	Varanasi, Uttar Pradesh	01/05/2018	189	2684	556
5	Homi Bhabha Cancer Hospital & Research Centre	Visakhapatnam, Andhra Pradesh	11/05/2023	210	9751	4581
6	Homi Bhabha Cancer Hospital & Research Centre	New Chandigarh, Punjab	24/08/2022	300	10107	4807
7	Homi Bhabha Cancer Hospital	Sangrur, Punjab	20/01/2015	150	7796	1963
8	Dr. B. Borooah Cancer Institute (BBCI)	Guwahati, Assam	27/11/2017	312	9810	4273
9	Homi Bhabha Cancer Hospital and Research Centre	Muzaffarpur, Bihar	30/04/2025	107	7526	1212
10	Platinum Jubilee Block	Mumbai, Maharashtra	Expected 31/03/2027	583	--	--
11	Integrated Centre for Treatment, Research, and Education in Cancer (ICTREC)	Khopoli, Raighad, Maharashtra	Expected 27/06/2026	75	--	--
12	Homi Bhabha Cancer Hospital	Bhubaneswar, Odisha	Expected 07/05/2026	200	--	--

(b) There is no irradiation facility established by DAE for sterilisation of medical products in Odisha. There are two Gamma Irradiation Chamber unit in Odisha

i. GC-5000 installed in "National Institute of Science Education and Research (NISER), Bhubaneswar, Odisha.

ii. Blood Irradiator in "IMS & SUM Hospital", Bhubaneswar, Odisha.

(c) Ferrocarbonatite (FC) is a proven source for REEs explored in large deposits in India. Bhabha Atomic Research Centre (BARC), jointly with Atomic Minerals Directorate

for Exploration and Research (AMDER), has prepared Certified Reference Material (FC-CRM) for rare earth element (REE) required for development and validation of analytical methods, calibration of instruments and quality control. It certifies 13 REEs (Ce, Dy, Er, Eu, Gd, La, Nd, Pr, Sc, Sm, Tb, Y and Yb) and 6 major elements (Al, Ca, Fe, Mg, Mn and P) and is useful in exploration, extraction and process control in REE ore mining. The CRM is the 4th such CRM in the world and first in India. BARC is producing high-purity gallium, indium, and germanium which is vital for use in semiconductors and radiation detectors to support its nuclear power programme. Further, requisite quality lutetium for radiopharmaceutical applications is also produced through isotope enrichment route. These CRM and lutetium based radiopharmaceutical development can be used by industries and hospitals respectively across the country including Odisha.

(d) These indigenously developed technologies related to REEs CRM required for exploration, extraction and process control in REE ore mining, production of radioisotope of requisite quality for medical applications especially in cancer care and production of high purity gallium, indium, and germanium are likely to reduce the dependency on imports in line with the Atmanirbhar Bharat initiative. These materials are vital for major technology intensive sectors such as renewable energy, healthcare sector, electronics, radiation detectors for self-reliance in nuclear, healthcare and industrial sector in the country including the state of Odisha. Presently, BARC does not have project proposal in the tribal and aspirational district in Odisha.

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