**7.3.1 Highlight the performance of the institution in an area distinct to its priority and thrust** (**within a maximum of 200 words)**

**Title: Advancement in Nuclear Science and Technology through Academic Programs**

HBNI is a unique university and was established with the mission of encouraging pursuit of excellence in sciences that has major significance for the progress of indigenous nuclear technological capability. HBNI academic programmes not only provide human resource base for developing technologies relevant to nuclear power generation, but also address strategic sector and other national mission programs including health care and other societal sectors. The doctoral students have access to wide range of facilities ranging from tabletop set upto mega science facilities. The knowledge and skills acquired in HBNI academic programs by students empowers them to take up hi-tech projects including design, construction, quality assurance as well as operation of nuclear facilities. This approach has given India confidence to construct nuclear reactors, as well as entire range of fuel cycle facilities based on indigenous technology.

The CIs/OCC of HBNI also pursue research in several frontline areas and applications of radiation and radioisotopes in different fields such as healthcare, industry, agriculture and food technology. Application of nuclear radiation technologies in health sciences is a success story, especially in the area of diagnosis and treatment of cancer. In this regard, HBNI has initiated multiple value added oncology related certified fellowships such as Fellowships in Theranostics, Fellowship in Cancer Cytogenetics, Fellowship in Paediatric Palliative Medicine and Fellowship in Paediatric Onco Critical Care at Tata Memorial Centre, Mumbai.