GOVERNMENT OF INDIA MINISTRY OF SCIENCE AND TECHNOLOGY DEPARTMENT OF SCIENCE AND TECHNOLOGY LOK SABHA UNSTARRED QUESTION NO.4194 TO BE ANSWERED ON 21/3/2018

NEXT GENERATION TECHNOLOGY LOOP

†4194. SHRI JANARDAN MISHRA:

Will the Minister of SCIENCE AND TECHNOLOGY विज्ञान और प्रौद्योगिकी मंत्री

be pleased to state:

(a) whether Indian Institute of Science Bengaluru has developed next generation technology loop;

(b) if so, the details thereof; and

(c) the area in which the said technology is likely to be utilised?

ANSWER

MINISTER OF SCIENCE AND TECHNOLOGY, MINISTER OF EARTH SCIENCES AND MINISTER OF ENVIRONMENT, FOREST AND CLIMATE CHANGE (DR. HARSH VARDHAN)

विज्ञान और प्रौद्योगिकी मंत्री, पृथ्वी विज्ञान मंत्री और पर्यावरण, वन एवं जलवायु परिवर्तन मंत्री

(डा. हर्ष वर्धन)

(a) & (b): Yes, Madam.The loop has been designed to generate the necessary data for future development of super critical carbon dioxide based power plant utilizing both conventional and renewable energy sources and to develop critical components such as the turbine, compressor and heat exchangers that can work at the desired pressure and temperature ranges usingappropriate materials.

(c) The technology is for next generation efficient, compact water less super critical carbon di-oxide brayton cycle power plants.
