

(b) if so, the details thereof and whether it has affected the critical system adversely;

(c) whether the officials have ascertained reasons for a serious breach by a malware which occurred at a high security nuclear power station computer; and

(d) whether it was a cyber attack aimed at sabotage in Kudankulam by vested interests?

THE MINISTER OF STATE IN THE DEPARTMENT OF ATOMIC ENERGY (DR. JITENDRA SINGH): (a) Yes, Sir. A malware infection was identified in NPCIL KKNPP Internet connected system.

(b) There was an identification of a malware infection on KKNPP administrative network used for day to day administrative activities. The affected system contains data related to administrative function. Plant control and instrumentation system is not connected to any external network such as Intranet, Internet and administrative system. The plant systems, which are isolated and not accessible from this administrative network, were not affected. There was no impact on the critical plant systems.

(c) and (d) Sir, the malware infection was only on the computers connected to the internet which are used for administrative purposes.

Nuclear power plants for electricity generation

†482. MS. SAROJ PANDEY: Will the PRIME MINISTER be pleased to state:

(a) the number of nuclear power plants functioning in the country at present and the percentage of electricity being generated through these plants to meet the total energy requirements of the country;

(b) the estimated increase in percentage of energy requirements of the country till the year 2022; and

(c) whether new nuclear power plants are being set up to meet these requirements, if so, the places where these are being set up and their efficiency in megawatt thereof?

THE MINISTER OF STATE IN THE DEPARTMENT OF ATOMIC ENERGY (DR. JITENDRA SINGH): (a) The present installed nuclear power capacity in the country

†Original notice of the question was received in Hindi.

comprises of 22 reactors with a total capacity of 6780 MW. Of these one reactor, RAPS-1 (100 MW) is under extended shutdown for techno-economic assessment. The nuclear power plants contribute about 3% of the total electricity generated in the country.

(b) The electrical energy requirement of the country for year 2018-19 is 1274595 MUs whereas projected energy requirement for year 2021-22 is 1566023 MUs. The percentage increase in energy requirement for the country till 2021-2022 *w.r.t.* energy requirement of 2018-19 is 22.86%.

(c) Nuclear power plants are being established along with electricity generating plants of other technologies to meet the electricity requirements of the country. The details of location and capacity in MW of the nuclear power plants being set up are as follows:

(i) Nuclear power plants under Construction:

State	Location	Project	Capacity (MW)
Gujarat	Kakrapar	KAPP-3&4	2 x700
Rajasthan	Rawatbhata	RAPP-7&8	2 X700
Haryana	Gorakhpur	GHAVP-1 &2	2 X700
Tamil Nadu	Kudankulam	KKNPP-3&4	2 X 1000
Tamil Nadu	Kalpakkam	PFBR	500

(ii) Nuclear power plants accorded administrative approval and financial sanction on which pre-project activities are in progress:

State	Location	Project	Capacity(MW)
Madhya Pradesh	Chutka	Chutka -1&2	2 X700
Karnataka	Kaiga	Kaiga - 5&6	2 X700
Rajasthan	MahiBanswara	Mahi Banswara - 1&2	2X700
		Mahi Banswara-3&4	2X700
Haryana	Gorakhpur	GHAVP-3&4	2 X700
Tamil Nadu	Kudankulam	KKNPP - 5&6	2 X 1000