Target fixed for nuclear power

312. SHRI NARENDRA KUMAR KASHYAP: Will the PRIME MINISTER be pleased to state:

(a) the details of targets fixed for generation of nuclear power during the Eleventh Plan, plant-wise;

(b) the details of targets achieved during the first three years of Eleventh Plan since 2007;

(c) whether the country is short of nuclear power generation;

(d) if so, the details thereof, plant-wise; and

(e) the steps taken by Government to increase nuclear power generation in the country?

THE MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS (SHRI V. NARAYANASAMY): (a) and (b) The details are given in the Statement-I (*See* below).

(c) There are nineteen reactors (4560 MW) in operation.

- Seven reactors (1400 MW) are under International Atomic Energy Agency Safeguards and use imported uranium. These reactors operate at full capacity.
- Ten reactors (2840 MW) use domestic uranium which is not available in the required quantity. These are operated at reduced power levels.
- One reactor (RAPS-1) is under long term shutdown.
- One reactor KAPS-1 (220 MW) after completion of Renovation and Modernisation is awaiting fuel for restart.

(d) The details are given in the Statement-III (*See* below).

(e) The Government is making efforts to augment domestic fuel supplies by opening of new mines and processing facilities. The shortage of domestic uranium is expected to be overcome progressively in about two years. In addition, nuclear power generation is expected to increase with completion of projects presently at an advanced stage of construction.

Statement-I

Details of targets fixed and achieved for generation of nuclear power during the eleventh plan, plant wise

Station	XI Plan Target (MU) Original	MTA	Actual Generation in first three years of XI Plan
Tarapur Atomic Power Station	40108	39555	21640
Rajasthan Atomic Power Station	32953	24057	8801
Madras Atomic Power Station	12853	10773	5313
Narora Atomic Power Station	10717	7239	2232
Kakrapar Atomic Power Station	10422	8855	4311
Kaiga Generating Station	24367	18297	8418
Kudankulam Power Station	29784	15832	0
PFBR, Kalpakkam	2190	0	0
TOTAL :	163394	124608	50715

MTA: Mid Term Appraisal

Statement-II

Table - Reactors in Operation

No.	Unit	Rated Capacity (MW)	Current (Nov. 2010) Operating Power Level
1	2	3	4
Reactors fuelled by Imported Uranium			
1	TAPS-1	160	160
2	TAPS-2	160	160
3	RAPS-2	200	200

1	2	3	4
4	RAPS-3	220	220
5	RAPS-4	220	220
6	RAPS-5	220	220
7	RAPP-6	220	220
	TOTAL :	1400	1400
Reactors fuelled by domestic Uranium - Operated at about 70% of full power			
8	TAPS-3	540	420
9	TAPS-4	540	405
10	MAPS-1	220	145
11	MAPS-2	220	125
12	NAPS-1	220	155
13	NAPS-2	220	155
14	KAPS-2	220	100
15	KAIGA-1	220	150
16	KAIGA-2	220	140
17	KAIGA-3	220	155
	Total :	2840	1950
Shut Down for techno economic assessment on continuation of operations			
18	RAPS-1	100	
Reactors awaiting fuel after Renovation and Modernization			
19	KAPS-1	220	
	TOTAL Capacity	4560	3350

The generation in April - October 2010 is 13,305 Million units (MUs). The generation during the same period last year was 10,376 MUs.