

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO - 1735
ANSWERED ON 29.07.2026

OPERATIONAL PERFORMANCE OF NPCIL NUCLEAR POWER PLANTS

1735. SMT KAMALJEET SEHRAWAT
DR. HEMANT VISHNU SAVARA

Will the PRIME MINISTER be pleased to state:-

- (a) the details of electricity generated by Nuclear Power Corporation of India Limited (NPCIL) during each of the last five years and the current year particularly in Tarapur Atomic Power Plant in Palghar district of Maharashtra, reactor-wise;
- (b) the details of Plant Load Factor (PLF) achieved by NPCIL's Nuclear Power Plants during the said period, reactor-wise;
- (c) the details of Nuclear Power Projects presently under construction indicating their installed capacity, estimated project cost and expected date of commissioning;
- (d) the details of agreements and collaborations entered into by NPCIL with public sector and private sector entities during the last three years; and
- (e) the details of the security measures taken by NPCIL on emergency situation and proper training to the staff to handle the emergency situation in the plants particularly in Tarapur Atomic Power Plant in Palghar district of Maharashtra?

ANSWER

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

- (a) & (b) The details regarding electricity generation from nuclear power plants and their PLF (including Tarapur Atomic Power Plant), during the last five years are given in Annexure.
- (c) The details of NPCIL projects under construction are tabulated below.

Unit	Project & Location	Capacity (MW)	Expected Date Of Commissioning	Revised Cost (Rs. Crore)
RAPP-7&8	Rawatbhata, Rajasthan	2 x 700	Commenced commercial operation on 15.04.2026	22,924#
			In advanced stage of commissioning	
GHAVP-1&2	Gorakhpur, Haryana	2 x 700	Completion of construction and commissioning is expected to be completed in about 6 years from First Pour of Concrete.	20,594*

KAIGA-5&6	Kaiga, Karnataka	2 x 700	June-2031/ June-2032	21,000*
KKNPP-3&4	Kudankulam, Tamilnadu	2 x 1000	June-2027/ June-2028	68,893
KKNPP-5&6		2 x 1000	June-2029/ March-2030	69,437

**Under Revision*

NPP cost are available in twin unit base.

BHAVINI is commissioning the 500 MW Prototype Fast Breeder Reactor at Kalpakkam, Tamil Nadu. The estimated completion cost of PFBR is Rs 8181 cr and the project is expected to get fully commissioned by Mar 2027.

(d) During the last three years, NPCIL entered into agreements/ collaborations for the augmentation of nuclear power generation with:

- (i) Maharashtra State Power Generation Company (MAHAGENCO)
- (ii) Maharashtra Institution for Transformation (MITRA) &
- (iii) NLC India Limited (*(formerly Neyveli Lignite Corporation India Limited)*).

(e) Adequate measures are in place to ensure the security of nuclear power plants which are subjected to periodic audits & reviews and necessary upgrades. To address the extremely unlikely event, plans approved by the regulatory authority are put in place at all Nuclear Power Plant sites, including Tarapur Atomic Power Plant, before the start of operation. Periodic exercises are carried out to confirm the decision making capabilities, implementation of security provisions, response timeline, co-ordination among response agencies, availability of necessary resources etc. All the plant personnel are well trained in safety, emergency and security measures. Periodical mock drills on different emergency situations are being conducted by Security Personnel and the reports pertaining to the same are reviewed by concerned officials.

Location & State	Unit	Capacity (MW)	Generation in Million Units (MUs)					Plant Load Factor (%)				
			2021-22	2022-23	2023-24	2024-25	2025-26	2021-22	2022-23	2023-24	2024-25	2025-26
Tarapur, Maharashtra	TAPS-1	160	Unit under project mode				38	Unit under project mode				16.09
	TAPS-2	160	Unit under project mode					Unit under project mode				
	TAPS-3	540	3829	4636	4148	4682	3568	80.94	98.00	87.44	98.98	75.42
	TAPS-4	540	4774	4349	3965	3785	3792	100.91	91.95	83.58	80.02	80.16
Rawatbhata, Rajasthan	RAPS-2	200	1453	733	1605	1194	1459	82.94	41.82	91.37	68.14	83.30
	RAPS-3	220	1563	1024	Unit under project mode	1022	1735	81.09	92.38	Unit under project mode	77.33	90.02
	RAPS-4	220	1723	1239	1701	1538	1721	89.38	64.30	88.01	79.79	89.29
	RAPS-5	220	1869	1661	1986	1685	1990	96.97	86.21	102.76	87.45	103.25
	RAPS-6	220	1702	1923	1768	1993	1795	88.29	99.81	91.49	103.39	93.16
	RAPP-7	700	Unit under construction				2202	Unit under construction				37.34
	RAPP-8	700	Unit under construction					Unit under construction				
Narora, Uttar Pradesh	NAPS-1	220	1828	1542	1521	1843	871	94.84	80.01	78.72	95.61	45.20
	NAPS-2	220	1753	1651	1353	1787	1814	90.94	85.65	70.03	92.72	94.14
Kakrapar, Gujarat	KAPS-1	220	1852	1793	1967	1661	1906	96.09	93.06	101.79	86.17	98.89
	KAPS-2	220	1652	1846	1708	1816	1622	85.70	95.81	88.38	94.23	84.18
	KAPS-3	700	Unit under construction		3932	4244	4931	Unit under construction		84.93	69.21	80.42
	KAPS-4	700	Unit under construction		3	4581	4315	Unit under construction		17.01	74.71	70.37
Kaiga, Karnataka	KGS-1	220	1607	1855	1643	1825	Unit under project mode	83.40	96.25	85.03	94.70	Unit under project mode
	KGS-2	220	1805	1687	1935	1564	1790	93.66	87.53	100.15	81.13	92.88
	KGS-3	220	2059	2073	1918	2043	1872	106.81	107.55	99.24	105.99	97.12
	KGS-4	220	2021	1829	2006	1927	2085	104.87	94.89	103.82	99.98	108.19
Madras, Tamil Nadu	MAPS-1	220	Unit under project mode					Unit under project mode				
	MAPS-2	220	1089	1786	1592	1675	1410	56.52	92.69	82.40	86.90	73.19
Kudankulam, Tamil Nadu	KKNPP-1	1000	7009	7035	6656	8412	7349	80.01	80.31	75.77	96.02	83.89
	KKNPP-2	1000	7527	7191	6563	7407	6925	85.93	82.09	74.72	84.55	79.05