

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.3996
TO BE ANSWERED ON 13.08.2015**

POWER GENERATION CAPACITY OF NAPHTHA POWERS PLANTS

3996. DR. SUBHASH BHAMRE:

**Will the Minister of POWER
be pleased to state:**

- (a) the details of power plants using Naptha and diesel as feed stock along with their installed capacity and the quantum of power generated by them during each of the last three years and the current year, sector-wise;**
- (b) the quantum of Naptha and diesel consumed in these plants during the said period;**
- (c) whether the National Thermal Power Corporation Limited (NTPC) proposes to replace the Naptha/diesel with gas in their power plants including Kayamkulam plant in Kerala, if so, the details and present status thereof; and**
- (d) whether the Government has received proposals from various States including Kerala for setting up power plants and if so, the details thereof along with the action taken by the Government thereon?**

A N S W E R

**THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER,
COAL AND NEW & RENEWABLE ENERGY**

(SHRI PIYUSH GOYAL)

(a) & (b) : The Sectorwise detail of installed capacity and power generation by Diesel Based power plants (above 25 MW) during last 3 years i.e. 2012-13, 2013-14, 2014-15 and 2015-16 (upto June, 2015) is at Annex-I. The Sectorwise details of quantum of Naptha and Diesel used for power generation in Gas Turbine (Liquid Fuel based) plants during past 3 years i.e. 2012-13, 2013-14, 2014-15 and 2015-16 (upto June, 2015) is at Annex-II.

Further, Naptha & Diesel (HSD) is also used as alternate fuel in some gas based Power Plants. The detail of Installed Capacity, power generation and quantum of Naptha and Diesel used for power generation from these plants during past 3 years i.e. 2012-13, 2013-14, 2014-15 and 2015-16 (upto June, 2015) is at Annex-III.

(c) : NTPC has taken steps to convert its Kayamkulam Plant from Naptha firing to multi-fuel firing (including natural gas).

(d) : After enactment of Electricity Act, 2003, generation of electricity has been de-licensed. As such, Techno-Economic clearance of Central Electricity Authority (CEA) is not required for thermal power projects. For Hydro projects, any generating company intending to set up a hydro-generating station shall prepare and submit the proposal to CEA for its concurrence. For gas based plants, due to reduction in availability in domestic natural gas in the country and no additional domestic gas likely to be available till 2015-16, Ministry of Power has issued an advisory not to plan any gas based generation plants till 2015-16.

ANNEX-I

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3996 TO BE ANSWERED IN THE LOK SABHA ON 13.08.2015.

DIESEL GENERATOR BASED POWER PLANTS WITH INSTALLED CAPACITY (Above 25MW) AND GENERATION FOR LAST THREE YEARS AND CURRENT YEAR							
Sl. No.	Name of Project	State	Installed Capacity (MW)	GENERATION (Gwh)			
				2012-13	2013-14	2014-15	2015-16 (Upto 30 June'15)
Central Sector							
Total (Central Sector)			0.00	0.00	0.00	0.00	0.00
State Sector							
1	Yelahanka Diesel Power Station	Karnataka	127.9	225.4	24.4	0.0	0.0
2	Brahmapuram Diesel Power Station	Kerala	106.6	83.5	29.1	8.4	5.8
3	Kozhikode Diesel Power Station	Kerala	128.0	446.7	191.8	199.3	53.2
4	Leimakhong Diesel Power Station	Manipur	36.0	0.0	0.0	0.0	0.0
5	AND. NICOBAR DG	Andaman & Nicobar	40.1	135.8	171.5	153.8	42.4
Total (State Sector)			438.6	891.4	416.8	361.5	101.4
Private Sector							
5	L.V.S.Diesel Power Station	Andhra Pradesh	36.8	0.0	0.0	0.0	0.0
6	Belguam Diesel Power Station (Tata)	Karnataka	113.8	84.2	0.0	0.0	0.0
7	Bellary Diesel Power Station	Karnataka	25.2	10.1	0.0	0.0	0.0
8	Basin Bridge Diesel Power Station	Tamil Nadu	200.0	611.8	804.3	576.3	2.1
9	Samalpatti Gas Power Station	Tamil Nadu	105.7	328.9	300.8	224.4	1.8
10	Samayanallur Diesel Power Station	Tamil Nadu	106.0	356.4	346.3	245.4	0.0
Total (Private Sector)			587.5	1391.3	1451.4	1046.0	3.9
Grand Total			1026.0	2282.7	1868.2	1407.4	105.4

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3996 TO BE ANSWERED IN THE LOK SABHA ON 13.08.2015.

DETAILS OF FUEL CONSUMPTION AND POWER GENERATION FOR LIQUID FUEL BASED GAS TURBINE POWER PLANTS CONSUMING NAPHTHA and DIESEL IN THE COUNTRY														
S. No.	Name of Power Station	Installed Capacity (MW)	2012-13			2013-14			2014-15			2015-16 (upto 30th June'15)		
			Gen.\$ (MUs)	Naphtha Consumed (KL)	Diesel Consumed (KL)	Gen.\$ (MUs)	Naphtha Consumed (KL)	Diesel Consumed (KL)	Gen.\$ (MUs)	Naphtha Consumed (KL)	Diesel Consumed (KL)	Gen.\$ (MUs)	Naphtha Consumed (KL)	Diesel Consumed (KL)
CENTRAL														
1	R. GANDHI CCPP (Liq.), NTPC , Kerala	359.58	1548.65	386330	182.48	968.53	239799	238.56	819.12	204938.72	307.28	4.05	1095.66	36.34
2	MAITHON GT (Liq.), DVC, Jharkhand	90.00	0	0	0	0	0	0	0	0	0	0	0	0
	Total (Central Sector)	449.58	1548.65	386330.00	182.48	968.53	239799.00	238.56	819.12	204938.72	307.28	4.05	1095.66	36.34
STATE														
3	PAMPORE GPS (Liq.), J&K	175.00	0	0	0	0	0	0	0	0	0	0	0	0
4	BASIN BRIDGE GT (Liq.), Tamil Nadu	120.00	0.42	179	61.68	0.85	388.25	37	2.85	0	0	0.96	0	0
5	HALDIA GT (Liq.), West Bengal	40.00	0	0	0	0	0	0	0	0	0	0	0	0
6	KASBA GT (Liq.), West Bengal	40.00	0	0	0	0	0	0	0	0	0	0	0	0
	Total (State Sector)	375.00	0.42	179.00	61.68	0.85	388.25	37.00	2.85	0.00	0.00	0.96	0.00	0.00
PVT IPP														
7	GOA CCPP (Liq.), Reliance, Goa	48.00	245.41	73581.36	0	241.32	0	0	12.61	0	0	0	0	0
8	COCHIN CCPP (Liq.), BSES, Kerala	174.00	135.98	22882.09	52.55	352.21	79786.18	84.11	154.71	0	0	0	0	0
	Total (Private Sector)	222.00	381.39	96463.45	52.55	593.53	79786.18	84.11	167.32	0.00	0.00	0.00	0.00	0.00
	Grand Total	1046.58	1930.46	482972.45	296.71	1562.91	319973.43	359.67	989.29	204938.72	307.28	5.01	1095.66	36.34

* Projects with Capacity below 25MW not Monitored

\$ Total Electricity Generated including other Fuel

MUs- Million Units

KL-Kilo Litre

MW- Mega Watt

ANNEX-III

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3996 TO BE ANSWERED IN THE LOK SABHA ON 13.08.2015.

Details of Gas Based Power Plants which used Naphtha/Diesel as alternate fuel																
S. No	Name of Power Station / State	Installed Capacity (MW)	2012-2013				2013-2014				2014-2015			2015-2016 (Upto 30 June 15)		
			Gen* (MUs)	Alternate fuel used (KL)		Gen* (MUs)	Alternate fuel used (KL)		Gen* (MUs)	Alternate fuel used (KL)		Gen* (MUs)	Alternate fuel used (KL)			
				Naphtha	HSD		Naphtha	HSD		Naphtha	HSD		Naphtha	HSD		
CENTRAL SECTOR																
1	FARIDABAD CAPP, Haryana	431.59	2403	0	0	1732	0	0	1571	130	23	393	0	0		
2	ANTA CAPP, Rajasthan	419.33	2176.45	380.96	0	1965	14	0	1654	0	0	342	10	0		
3	AURAIYA CAPP, Uttar Pradesh	663.36	2774.82	431.425	0	1792	133	0	1664	1642	0	448	138	0		
4	DADRI CAPP, Uttar Pradesh	829.78	4418	0	759	3400	0	1	2530	0	868	845	0	0		
5	KAWAS CAPP, Gujarat	656.2	2900.99	23.89	56.02	1389	214.7	172.3	1741	369	43	614	58	2		
	Total (CS)	3000.26	14673.26	836.275	815.02	10278	361.7	173.3	9160.08	2141	934	2642	206	2		
STATE SECTOR																
6	I.P.CAPP, Delhi	270	0	0	0	0	0	0	0	0	0	0	0	0		
7	RAMGARH CAPP, Rajasthan **	113.8	497.89	0	61.35	673.319	0	34.589	0	0	0	0	0	0		
	Total (SS)	383.8	497.89	0	61.35	673.319	0	34.589	0	0	0	0	0	0		
PVT SECTOR																
8	GODAVARI CAPP, Andhra Pradesh	208	1032.98	2417.84	0	0	0	0	548.97	9328.32	0	81.08	2275.4	0		
9	P.NALLUR CAPP, Tamil Nadu	330.5	1817.92	268360.8	381	1251.02	306632.43	492	1171.36	189824	535	3.06	904	32		
10	JEGURUPADU CAPP, Andhra Pradesh	455.4	1689.04	1648.3	0	0	0	0	595.27	4133.11	0	79.64	978.55	0		
11	KONDAPALLI CAPP, Andhra Pradesh	350	1768.38	12141.81	21.18	0	0	0	576.66	48979.43	97.13	162.35	1740.55	0		
12	PAGUTHAN CAPP, GUJRAT	655.00	0	0	0	0	0	0	298.4	0	5	0	0	0		
	Total (Pvt Sector)	1998.9	6308.32	284569	402.18	1251.02	306632.4	492	3190.66	252264.9	637.13	326.13	5898.5	32		
	Grand Total	5382.96	21479.5	285405	1278.6	12202.34	306994.1	699.889	12350.74	254405.9	1571.13	2968.13	6104.5	34		

* Electricity Generated (MU) is on both alternate fuel and gas (wherever available)
