

Requirement of natural gas for fertilizer industry

2375. SHRI TARINI KANTA ROY:

SHRI TAPAN KUMAR SEN:

Will the Minister of CHEMICALS AND FERTILIZERS be pleased to state:

(a) the quantity of natural gas required by the fertilizer industry to run the existing units, make available for future expansion of the existing units, convert the naphtha/FO/LSHS based units and to revive the closed units in the country;

(b) the estimated year-wise and plant-wise requirement of gas by the fertilizer industry during 2012-13, 2013-14 and 2014-15;

(c) the expected year of connectivity of gas pipelines to FO/LSHS/naphtha based and closed fertilizer units; and

(d) how the requirement of natural gas by the fertilizer industry in the said years be met and from which sources?

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS AND FERTILIZERS (SHRI SRIKANT JENA): (a) The quantity of natural gas required by fertilizer industry to run the existing units, make available for expansion of the existing units, convert the Naphtha/FO/LSHS based units and reviving the closed units in the country is 46.9 MMSCMD, 19.2 MMSCMD (approximately 8 units), 9.93 MMSCMD and 16.8 MMSCMD respectively.

(b) The additional estimated year-wise and plant-wise requirement of gas for conversion of Naphtha/FO/LSHS based units and one Greenfield project during 2012-13, 2013-14 and 2014-15 is given in Statement (*See* below). The requirement for gas for expansion and revival project would come during the year 2016-17.

(c) There are four FO/LSHS plants, namely Nangal, Bhatinda and Panipat units of National Fertilizers Limited and Bharuch unit of Gujarat Narmada Valley Fertilizers Corporation Ltd. These four plants are already connected to gas pipelines. There are five Naphtha based units, namely Madras Fertilizers Limited, Chennai, SPIC, Tuticorin, Mangalore Chemicals and Fertilizers Limited, New Mangalore, Zuari Industries Limited, Goa, Kanpur Fertilizers and Cement Limited, Kanpur (presently closed). Gas pipeline to all these plants is expected to be laid by end of year 2013-14.

(d) Each company enters into a Gas Sale Purchase Agreement with Gas Supplying Company, who in turn sources the gas either from domestic source or through imports.

Statement

A. Year-wise/plant-wise additional requirement of Natural Gas

Sl. No.	Name of the unit	Additional Requirement (mmscmd)		
		2012-13	2013-14	2014-15
A Naphtha based				
1	ZIL-Goa	1.28	1.28	1.28
2.	MCFL-Mangalore	0.00	1.00	1.00
3	SPIC-Tuticorin	0.00	1.66	1.66
4.	MFL-Manali	0.00	1.54	1.54
5.	DIL-Kanpur	0.00	1.70	1.70
I	Sub-Total of Naphtha based plants	1.28	6.18	6.18
B Fuel-Oil based				
6.	NFL-Panipat	0.90	0.90	0.90
7.	NFL-Nangal	1.00	1.00	1.00
8.	NFL-Bathinda	0.90	0.90	0.90
9.	GNVFC-Bharuch	0.95	0.95	0.95
II	Sub-Total of Fuel-Oil based	3.75	3.75	3.75
C Green Fields Projects				
10.	MATIX Fert. and Chem., Burdwan	2.4	2.4	2.4
III	Subtotal of Greenfield Projects	2.4	2.4	2.4
GRAND TOTAL:		7.43	12.33	12.33

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
2.	CFCL-Gadepan-I	8.646	9.901	31.0	2.120	0.638	0.180	0.786	0.000	0.000	0.522	0.000	2.126	2.126	0.200
	CFCL-Gadepan-II	8.646	10.472	31.0	2.040	0.000	0.000	1.237	1.154	0.000	-0.522	0.097	1.966	2.063	-do-
3.	IFFCO-Aonla-I	9.999	10.450	30.4	4.480	1.350	0.399	0.444	1.735	0.000	0.013	0.000	4.305	4.305	0.000
	IFFCO-Aonla-II	9.999	10.200	30.0	-do-	-do-	-do-	-do-	-do-	-do-	-do-	-do-	-do-	-do-	-do-
4.	IFFCO-Phulpur-I	6.980	7.200	30.8	3.700	0.000	0.000	3.064	0.248	0.000	0.000	0.001	3.312	3.313	0.388
	IFFCO-Phulpur-II	9.999	10.300	31.0	-do-	-do-	-do-	-do-	-do-	-do-	-do-	-do-	-do-	-do-	-do-
5.	KSFL-Shahjahanpur	9.90	9.800	13.4	2.253	0.570	0.159	0.076	0.979	0.144	0.051	0.000	1.979	1.979	0.000
6.	TCL-Babrara	8.646	10.812	31.0	2.104	0.660	0.155	0.408	0.831	0.085	0.000	0.029	2.140	2.169	0.000
7.	IGFL-Jagdishpur	8.646	11.579	31.0	2.230	0.622	0.155	0.763	0.250	0.000	0.017	0.382	1.806	2.188	0.420
8.	SFC-Kota	3.795	4.000	25.4	0.620	0.000	0.000	0.000	0.473	0.000	0.000	0.001	0.473	0.474	0.147
B. Non-HBJ Pipeline															
9.	BVFC-Namrup-II	1.20	1.20	2.3	0.98	0.197	0	0	0	0	0	0	0.197	0.197	0.783
	BVFC-Namrup-III	2.70	2.70	28.6	1.04	1.010	0	0	0	0	0	0	1.010	1.010	0.030

10.	Kribhco-Hazira	21.945	22.135	30.9	4.950	1.707	0.157	0.020	1.340	0.450	0.057	0.007	3.731	3.738	0.500
11.	NFCL-Kakinada-I	5.973	7.22000	26.0	3.2	0.845	0.243	0.000	1.727	0.000	0.000	0.000	2.815	2.815	0.0000
	NFCL-Kakinada-II	5.973	8.43000	31.0	-do-	-do-	-do-	-do-	-do-	-do-	-do-	-do-	-do-	-do-	-do-
12.	RCF-Trombay-V	3.300	3.300	31.0	2.050	0.928	0.043	0.000	0.947	0.000	0.000	0.000	1.918	1.918	0.132
13.	RCF-Thai	17.070	19.500	31.0	4.750	1.643	0.117	0.000	2.107	0.468	0.000	0.319	4.335	4.654	0.000
14.	IFFCO-Kalol	5.445	5.750	31.0	1.300	0.000	0.000	0.000	1.276	0.000	0.000	0.000	1.276	1.276	0.024
15.	GSFC-Vadodara	3.7059	3.6900	31.0	2.486	0.670	0.046	0.045	0.722	0.202	0.000	0.000	1.685	1.685	NIL
16.	GNFC-Bharuch	6.369	7.016	31.0	2.450	0.244	0.000	0.324	0.342	0.000	0.101	0.000	1.011	1.011	0.000
TOTAL OF GAS BASED PLANTS:		196.155			46.993	13.004	1.973	7.810	14.728	2.075	0.239	0.867	40.289	41.156	2.655

Note: For few plants, the supply is lower than requirements. However, shortfall has not been shown. In such cases there is usually lower supply taken due to constraint in the plant operation, hence less consumption. IFFCO-Phulpur faced low supply pressure in GAIL pipeline, hence shown the shortfall, made up by use of naphtha.