

GOVERNMENT OF INDIA
MINISTRY OF COAL

LOK SABHA
UNSTARRED QUESTION NO.445
TO BE ANSWERED ON 25.02.2016

Production of Lignite Coal

445. SHRIMATI RITI PATHAK:

Will the Minister of COAL be pleased to state:

- (a) the grade, quantity and value of lignite coal produced from various operational mines in Neyveli Lignite Corporation Limited during the last three years and the current year, and its value in international market, year-wise;
- (b) the total income earned during the above period;
- (c) the measures taken by the Government to produce more quantity of high grade lignite coal from Neyveli coal mines;
- (d) the total quantity and quality of coal supplied to the thermal power stations during the said period together with its performance in generation of power; and
- (e) the steps taken by the Government to provide adequate infrastructural logistic and technological facilities to NLC Limited?

ANSWER

**MINISTER OF STATE (IC) IN THE MINISTRY OF COAL, POWER AND NEW
& RENEWABLE ENERGY**

(SHRI PIYUSH GOYAL)

- (a) The lignite in the Neyveli Lignite Corporation Ltd.'s (NLC) mines is classified as G-15 to G-16 grade based on the calorific value of the fuel. The quantity and value of lignite produced from various operational lignite mines of during the last three years, year wise are as below:-

Unit	2015-16 (Up to Jan 2016)		2014-15		2013-14		2012-13	
	Lignite Production (In Million Tonnes)	Value of production (Rs in Crs)	Lignite Production (In Million Tonnes)	Value of production (Rs in Crs)	Lignite Production (In Million Tonnes)	Value of production (Rs in Crs)	Lignite Production (In Million Tonnes)	Value of production (Rs in Crs)
Mine-I	6.072	1475.69	9.055	2121.46	9.003	1353.78	7.960	1182.85
Mine-IA	1.773	464.21	2.915	559.72	3.001	547.51	2.940	506.14
Mine-II	9.381	2249.20	13.221	2431.06	13.052	2332.81	13.944	2406.50
Mine-Barsingsar	1.012	92.58	1.352	102.62	1.553	149.37	1.379	141.81
Total	18.238	4281.67	26.543	5214.86	26.609	4383.47	26.223	4237.30

(b) The total income earned during the last three years and current year by NLC is as below.

RsCrore

Particulars	2015-16 (Up to Dec 2015)	2014-15	2013-14	2012-13
Total Income	5229.62	6796.97	6991.99	6173.02

(c) NLC is implementing the following projects to augment its lignite production:-

- i) Expansion of Mine-I (Area Expansion) & Expansion of Mine-IA from 3 MTPA to 7 MTPA, Neyveli, TN.
- ii) Bithnok Lignite Mine(2.25 MTPA),Rajasthan
- iii) Hadla Lignite Mines (1.9 MTPA), Barsingsar, Rajasthan.
- iv) Barsingsar Mine Expn (0.40 MTPA),Rajasthan

(d) The total quantity of lignite (thermal grade quality) supplied to the thermal power stations during the last three years are as below.

Particulars of consumption in TPS (In MT)	2015-16 (Up to Jan 2016 Prov)	2014-15	2013-14	2012-13
TPS-I	3.848	5.331	5.930	5.873
TPS-I Exp	2.725	3.449	3.341	3.339
TPS-II	9.333	12.021	12.150	12.303
TPS-II Exp **	0.916	0.346	0.047	0.044
TPS-Barsingsar	1.012	1.352	1.479	1.263

** Under Construction.

Performance in generation of power

Particulars of Generation of TPS (In MU)	2015-16		2014-15		2013-14		2012-13	
	Generation MU	PLF %	Generation MU	PLF %	Generation MU	PLF %	Generation MU	PLF %
TPS-I	2547.76	57.82	3631.05	69.08	4058.14	77.21	4035.43	76.78
TPS-I Exp	2665.56	86.42	3385.03	92.00	3292.10	89.48	3319.77	90.23
TPS-II	8602.63	79.69	11131.33	86.44	11179.16	86.81	11238.09	87.27
TPS-II Exp **	793.55	--	199.57	-	21.01	-	28.20	-
TPS-Barsingsar	1066.99	58.11	1380.71	63.05	1438.24	65.67	1280.85	58.49
Wind Power**	22.69	-	1.44	-	-	-	-	-
Solar Power**	5.59	-	-	-	-	-	-	-
Total	15704.77		19729.13		19988.65		19902.34	

** Under Construction / Stabilization

(e) NLC is mining lignite and operates pit head power generating stations. As on date NLC is operating three open cast Lignite mines at Neyveli with a production capacity of 28.5 Million Tonnes Per Annum. The company has provided for its operational requirements in all the three mines, continuous mining technology for the last five decades, sophisticated Specialised Mining Equipments (SMEs) viz. Bucket Wheel Excavators (BWE), Mobile Transfer Conveyors (MTC), system of Conveyors and Spreaders for excavation and transportation of lignite and overburden. Mechanized Conventional Mining Equipment technology comprising of Shovel & Dumper combination is used in Barsingsar lignite Mine, Rajasthan.

In addition to the above, the following measures have been implemented in the existing Mines of NLC as a part of modernization and to improve the productivity and safety .

- i) Wireless based centralized monitoring operation and control system in one of the benches of Mine-IA.
- ii) PLC based automation system for Mine-I Lignite bunker.
- iii) Implementation of Variable Voltage Variable Frequency (VVVF) drives in Specialized Mining Equipments and Conveyors.

All the (SMEs) Specialised Mining Equipments and BWEs, conveyors, spreaders etc. procured for new mines viz., Mine-II expansion are incorporated with latest art of technology like VVVF, PLC enabling higher production & productivity.
