

GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
STARRED QUESTION NO.195  
ANSWERED ON 10.03.2016

SUPPLY OF COAL FOR POWER PLANTS

†\*195. SHRI VISHNU DAYAL RAM:  
SHRI GAJENDRA SINGH SHEKHAWAT:

Will the Minister of POWER  
be pleased to state:

- (a) the quantum of coal supplied to thermal power plants during each of the last three years, year-wise and sector-wise;
- (b) whether thermal power plants have sufficient stock of coal to meet the current demand, if so, the details thereof;
- (c) the number of thermal power plants which had to be shut down for short period due to shortage of coal during the last three years, State/UT-wise; and
- (d) the steps being taken by the Government to ensure uninterrupted supply of coal to the thermal power plants?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) to (d) : A Statement is laid on the Table of the House.

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## STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (d) OF STARRED QUESTION NO. 195 ANSWERED IN THE LOK SABHA ON 10.03.2016 REGARDING SUPPLY OF COAL FOR POWER PLANTS.

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(a) : Sector-wise details of quantum of coal received by thermal power plants (monitored by Central Electricity Authority) during the last three years are given at Annex.

(b) : Yes, Madam. As on 6<sup>th</sup> March, 2016, coal stock at power plants was around 36.7 Million Tonnes (MT) which is sufficient to meet the requirement of coal for operation of the coal based power plants for 26 days, on average.

(c) : As reported by power utilities, the generation loss due to shortage of coal during the last three years i.e. 2012-13, 2013-14 and 2014-15 are 15.054 Billion Unit (BU), 8.082 BU and 2.678 BU respectively. During the current year 2015-16 (upto February, 2016), none of the power plants have reported generation loss due to shortage of coal.

(d) : Steps being taken by the Government to ensure uninterrupted supply of coal to the thermal power plants, inter-alia, are :

- (i) Enhanced production of coal by Coal India Limited (CIL). CIL has prepared a road map to enhance coal production to 1 Billion Tonnes (BT) by the year 2019-20 to meet the coal requirement.
- (ii) Coal blocks have been allotted to power utilities to improve domestic coal availability.
- (iii) The availability of coal is regularly monitored at the highest level in the Government so that generation of power plant is not affected due to shortage of coal.

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## ANNEX

ANNEX REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 195 ANSWERED IN THE LOK SABHA ON 10.03.2016 REGARDING SUPPLY OF COAL FOR POWER PLANTS.

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Sector-wise details of quantum of coal received by thermal power plants (monitored by Central Electricity Authority) during the last three years

Sector	Figures in thousand tonnes								
	2012-13			2013-14			2014-15		
	Domestic	Imported	Total	Domestic	Imported	Total	Domestic	Imported	Total
Central	166937	11476	178413	173936	14802	188738	177839	18542	196381
State	195060	13924	208984	181307	14664	195971	196498	16766	213264
Private	39354	37770	77124	59452	50604	110056	76537	55980	132517
Total	401351	63170	464521	414695	80070	494765	450874	91288	542162

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2071  
ANSWERED ON 10.03.2016

FOSSIL FUEL RESERVES

2071. SHRI M. CHANDRAKASI:

Will the Minister of POWER  
be pleased to state:

- (a) the present level of fossil fuel reserves in the country and expected period/year by which the same will be exhausted;
- (b) the details of new alternate energy sources which have been identified for exploration and use in future especially after exhausting fossil fuel reserves; and
- (c) the details of R&D works undertaken in the country and the world over to meet future energy needs after exhausting fossil fuels?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) : As per the information available with Central Electricity Authority (CEA), the present level of coal reserves are 301.5 billion tonnes and may last for around 100 years. There are 47 trillion cubic ft. of natural gas reserves and 800 Million Metric Tonnes (MMT) of oil reserves. These reserves are expected to last for 30-40 years. Further, lignite reserves of 44,114.24 Million Tonnes (MT) are available in the country. However, based on the present techno commercial viability of lignite mining, the mineable reserve in the country is estimated at 4326 MT. The lignite reserves is expected to last for around 85 years.

(b) : Renewable Energy Sources (RES) like Solar, Wind (including off-shore wind), Bio-mass, Tidal, Geo-Thermal & small hydro etc. have been identified for development, which would replace fossil fuels.

(c) : The details of R&D Projects on RES, undertaken under the R&D Schemes of the Ministry of Power, are given in the *Annex*.

The world over, R&D efforts are directed towards improving RES and allied energy storage and addressing issues related to grid integration of RES.

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ANNEX REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 2071 ANSWERED IN THE LOK SABHA ON 10.03.2016.

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DETAILS OF R & D PROJECTS RELATED TO "RENEWABLE ENERGY SOURCES"  
COMPLETED PROJECTS

Sl. No.	Title	Institute/ Organization
1	A Study on Stability & Reliability of the power system with large penetration of Wind Power	CPRI ( Power System Division)

ON-GOING PROJECTS

Sl. No.	Title	Institute/ Organization
1	Application of intelligent control to hybrid wind diesel-solar power system	NIT, Hazratbal, Srinagar
2	FPGA Based Development of Different MPPT Algorithms for a Stand-Alone Photo Voltaic System using Artificial Intelligence	National Institute of Technology Karnataka (NITK), Surathkal, Mangalore, Karnataka
3	Hydrogen Fuel Generation by Splitting of Water using Nano sized Metal Doped Layered Titanates for Fuel Cell Applications	Alagappa College of Technology(A.C. Tech) Campus, Anna University

PROJECTS APPROVED

Sl No.	Title	Institute/ Organization
1	Effect of harmonic due to large scale penetration of Rooftop SPV Power Plant	DSD, CPRI
2	Development of Control Strategies for Grid Connected PV System utilizing the MPPT and Reactive Power Capability	Indian Institute of Technology Kanpur
3	Investigation on the operation and control of multiple distributed generation sources in micro grid (Phase-II)	National Institute of Technology Karnataka (NITK) Surathkal
4	Day Ahead Solar Power Forecasting for Indian Climatic Zone	Central Power Research Institute, Bangalore
5	Design, development and deployment of grid interfaced power conversion unit for solar -wind power generation system	Arunai Engineering College, Tiruvannamalai
6	Development of Smart Grid, Controllers for Hybrid Renewable Distributed Generator for a Stand - alone and Grid-connected Operation Addressing Reliability and Power Quality Issues	National Institute of Technology Puducherry
7	Development of solid state transformer as a wind power interfacing device	National Institute of Technology Calicut
8	Development and demonstration of 1 k W soluble lead redox flow battery system for solar energy and retrieval	EATD, CPRI

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2074  
ANSWERED ON 10.03.2016

AGREEMENT FOR POWER DISTRIBUTION

†2074. SHRI ARJUN LAL MEENA:

Will the Minister of POWER  
be pleased to state:

- (a) whether any agreement was signed with regard to distribution of power generated through Anandpur Sahib Hydel Project, Mukarian Hydel Project, (Ranjit Sagar) Project, UBDS second phase and Shahpur Kandi Hydel Project; and
- (b) if so, the details thereof along with latest status in this regard?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) & (b) : An agreement was reached between the States of Punjab, Haryana & Rajasthan and the Government of India on 10.05.1984 wherein it was agreed that in view of the claims raised by Haryana and Rajasthan for sharing of power in Anandpur Sahib Hydel project, Mukerian Hydel Project, Thein Dam Project, Upper Bari Doab Canal (UBDC) Stage-II and Shahpur Kandi Hydel Scheme, the Government of India shall refer the matter to the Hon'ble Supreme Court for its opinion. The opinion of the Hon'ble Supreme Court was to be sought on whether the States of Rajasthan and Haryana are entitled to a share in the power generated from these Hydel schemes and in case they are, what would be the share of each State.

However, subsequently in the discussion held between the Chief Ministers of Punjab, Haryana and Rajasthan on 29-30 July, 1992 and 6<sup>th</sup> August, 1992, a consensus was reached not to refer the matter to the Hon'ble Supreme Court. It was also decided that these States would come to a reasonable agreement through mutual consultations. In order to resolve the issue amicably, a number of formal discussions have taken place. However, no consensus has emerged so far on the divergent views of the stakeholder States.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2079  
ANSWERED ON 10.03.2016

CLEAN COAL TECHNOLOGY

2079. SHRI G. HARI:  
SHRI ASADUDDIN OWAISI:

Will the Minister of POWER  
be pleased to state:

- (a) whether India and Australia have agreed on enhancing cooperation in clean coal technology in a bid to meet the burgeoning demand for cheaper and environment friendly energy in one of the fastest growing economies, if so, the details thereof;
- (b) if so, whether India has highlighted the role of High Efficiency Low Emission technology (HELE); and
- (c) if so, the extent to which India's Intended Nationally Determined Contribution (INDC) and HELE has got support from climate finance and development banks?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) & (b) : In the context of the India-Australia Energy Security Dialogue, business to business roundtables took place in Australia from 7<sup>th</sup> to 11<sup>th</sup> February, 2016, wherein discussions were held, inter-alia, on Efficient Coal Mining, Clean Coal Technologies, Coal Gasification (including underground), etc.

(c) : India's Intended Nationally Determined Contributions (INDC) pertains to the period 2021-2030. No support has been received from the Green Climate Finance and other Development banks, as of now, for the INDCs.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2115  
ANSWERED ON 10.03.2016

FINANCIAL ASSISTANCE BY REC

†2115. SHRI RAM CHARAN BOHRA:

Will the Minister of POWER  
be pleased to state:

- (a) whether the Rural Electrification Corporation Limited has sent a proposal to provide financial assistance to State Governments including Rajasthan, Madhya Pradesh and Gujarat to develop infrastructure;
- (b) if so, the State-wise details thereof; and
- (c) the extent to which it is likely to help in supplying electricity to all houses in remote areas of these States?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) to (c) : No, Madam. Rural Electrification Corporation (REC) Limited has not sent any proposal to provide financial assistance to any State Government including Rajasthan, Madhya Pradesh and Gujarat to develop infrastructure. However, REC has sanctioned 609 projects of Transmission, Distribution, Generation and Renewable etc. with total loan amount of Rs.61421.37 crore during 2014-15. The State-wise details are placed at Annex. In addition to this, REC has also released a loan component of Rs.3773.55 crore under Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) which will help in providing electricity supply in rural and remote areas.

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ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 2115 ANSWERED IN THE LOK SABHA ON 10.03.2016.

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AMOUNT SANCTIONED DURING 2014-15 UNDER REC FINANCED POWER INFRASTRUCTURE SCHEME

			(Rs. in Lakh)
Sl. No.	State	No. of Schemes/Projects	Loan Amount
<b>A T&amp;D</b>			
1	Andhra Pradesh	53	572972.8
2	Chhattisgarh	16	71334.85
3	Haryana	90	165516.11
4	Himachal Pradesh	25	10181.92
5	J&K	19	5143.4
6	Karnataka	36	110849.9
7	Kerala	2	7094.46
8	Madhya Pradesh	1	15470
9	Maharashtra	63	202195.83
10	Manipur	13	3988
11	Odisha	12	19772.49
12	Punjab	46	130628.42
13	Rajasthan	28	133379.09
14	Tamil Nadu	34	218657.93
15	Telangana	57	140981.15
16	Uttar Pradesh	21	397304.33
17	Uttarakhand	13	51206.54
18	West Bengal	23	238857.85
19	Private (T&D)	0	7579
	Sub-Total(A)	552	2503114.07
<b>B Generation Projects</b>			
1	Andhra Pradesh/Telangana	0	115200
2	Bihar	1	237698
3	Chhattisgarh	0	150521
4	Gujarat	0	11674
5	Karnataka	1	187300
6	Kerala	2	20386
7	Maharashtra	0	132018
8	Madhya Pradesh	1	61600
9	Odisha	4	259383
10	Sikkim	0	96800
11	Tamil Nadu/Puducherry	2	484074
12	Uttar Pradesh	1	452395
13	Uttarakhand	0	8782
	Sub-Total(B)	12	2217831
<b>C Renewable Project</b>			
1	Andhra Pradesh	1	2445
2	Gujarat	3	21658
3	Maharashtra	2	9689
4	Odisha	1	11200
5	Rajasthan	1	9800
	Sub-Total-(C)	8	54792
<b>D. STL and others</b>			
1	Delhi	1	50000
2	Karnataka	9	131000
3	Madhya Pradesh	5	205000
4	Meghalaya	2	15000
5	Punjab	9	132000
6	Rajasthan	3	430000
7	Telangana	1	100000
8	Uttar Pradesh	5	273400
9	West Bengal	2	30000
	Sub-Total-(D)	37	1366400
	Grand Total (A+B+C+D)	609	6142137.07

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GOVERNMENT OF INDIA  
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LOK SABHA  
UNSTARRED QUESTION NO.2128  
ANSWERED ON 10.03.2016

MINI HYDRO POWER PLANTS

2128. DR. KIRIT SOMAIYA:

Will the Minister of POWER  
be pleased to state:

- (a) whether the Government proposes to set up 28 mini hydro power projects in the downstream of Bhakra Nangal;
- (b) if so, the details thereof;
- (c) whether these projects have been held up due to certain reasons; and
- (d) if so, the details thereof and the measures taken by the Government in this regard along with the current status thereof?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) : No, Madam.

(b) to (d) : Does not arise.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2143  
ANSWERED ON 10.03.2016

REPRESENTATION OF STATES IN BBMB

2143. SHRI BAHADUR SINGH KOLI:

Will the Minister of POWER  
be pleased to state:

- (a) whether any meeting was held for providing proper representation to all participating States in BBMB Secretariat;
- (b) if so, the details of the decision taken in the said meeting;
- (c) whether the Government had issued direction to BBMB to implement the decision taken in the said meeting; and
- (d) if so, the action taken in this regard?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) & (b) : In the 122<sup>nd</sup> meeting of the Board of BBMB held on 26.07.1986, the issue of providing proper representation to all participating States in the Bhakra Beas Management Board (BBMB) Secretariat was also discussed. No specific decision was taken.

(c) : No, Madam.

(d) : Does not arise.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2151  
ANSWERED ON 10.03.2016

HYDRO-POWER PROJECTS

†2151. DR. BHOLA SINGH:

Will the Minister of POWER  
be pleased to state:

- (a) whether it is a fact that the hydro power projects on River Ganga are being opposed;
- (b) if so, the details thereof;
- (c) the total number of hydro-power projects running or pending on the Ganga river at present; and
- (d) the details thereof, State-wise?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) & (b) : Hon'ble Supreme Court, vide its judgment dated 13.08.2013, directed not to grant Environment & Forest Clearances to the 24 Hydro-Electric Schemes located in Ganga river basin, as per details given in Annex-I.

Ministry of Water Resources, River Development & Ganga Rejuvenation has directed the Central Water Commission (CWC) not to appraise the Detailed Projects Reports (DPRs) of Hydro-Electric Schemes in Ganga river basin till the report of the Committee to determine the quantum of minimum E-flow is finalized.

(c) & (d) : Total number of Hydro Power projects in operation, under construction and planned on the Ganga river are given in Annex-II.

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ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 2151 ANSWERED IN THE LOK SABHA ON 10.03.2016.

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LIST OF 24 HEPs held up due to Hon'ble Supreme Court Order dated 13.08.2013				
Sl. No.	Sub Basin	Name of the Project	River	Power Generation Capacity (MW)
1	Bal Ganga	Bal Ganga II	Bal Ganga	7
2		Jhala Koti	Dharam Ganga (Bal Ganga)	12.5
3	Bhagirathi-II	Bharon Ghati	Bhagirathi	381
4		Jalandarigad	Jalandharigad	24
5		Siyangad	Siyangad	11.5
6		Kakoragad	Kakoragad	12.5
7	Bhagirathi-IV	Kotlibhel IA	Bhagirathi	195
8	Bhagirathi-I	Karmoli	Jadhganga	140
9		Jadhganga	Jadhganga	50
10	Mandakini	Rambara	Mandakini	76(24)
11	Alaknanda-I	Kotlibhel IB	Alaknanda	320
12	Alaknanda-III	Alaknanda	Alaknanda	300
13		Khirao Ganga	Khirao Ganga	4
14	Alaknanda-II	Urgam II	Kalpganga	5(3.80)
15	Dhauliganga	Lata Tapovan	Dhauliganga	171(170)
16		Malarijhelam	Dhauliganga	114
17		Jelamtamak	Dhauliganga	128(126)
18		Tamaklata	Dhauliganga	250
19	Bhyundarganga	Bhyundarganga	Bhyundarganga	24.3
20	Rishiganga-II	Rishiganga-I	Rishiganga	70
21		Rishiganga-II	Rishiganga	35
22	Birahiganga	Birahiganga-I	Birahiganga	24
23		Gohana Tal	Birahiganga	60(50)
24	Ganga	Kotlibhel-II	Ganga	530
Total		24		2608.60

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ANNEX REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 2151 ANSWERED IN THE LOK SABHA ON 10.03.2016.

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The details of the Hydro-Electric Projects under operation in Ganga River

Sl. No.	Name of Project	River	Installed Capacity (MW)	Year of Commissioning
1.	Tehri (THDC)	Bhagirathi	1000	2006-07
2.	Koteshwar (THDC)	Bhagirathi	400	2011-12
3.	Chilla (UJVNL)	Ganga	144	1980-81
4.	Maneribhali St.I (UJVNL)	Bhagirathi	90	1984
5.	Maneri Bhali-II (UJVNL)	Bhagirathi	304	2007-08
6.	Vishnu Prayag(JPVL)	Alaknanda	400	2006-07
7.	Shrinagar (GVK)	Alaknanda	330	2015-16
	Total		2668	

The details of the HEPs on river Ganga which are under construction and at various stages of implementation are given as under:-

(i) Under Construction:

Sl. No.	Project	River	Installed Capacity (MW)	Type
1	Tapovan Vishnugad (NTPC)	Dhauliganga	520	ROR
2	Lata Tapovan NTPC*	Dhauliganga	171	ROR
3	Tehri-II THDCIL (PSS)	Bhagirathi	1000	PSS
4	Vishnugad Pipalkoti THDCIL	Alaknanda	444	ROR
5	Phata Byung M/s Lanco	Mandakini	76	ROR
6	Singoli Bhatwari L&T UHPL	Mandakini	99	ROR
	Total		2310	

\* Held up on account of Hon'ble Supreme Court Order dated 13.08.2013 as reflected in Annex-I

(II) Cleared and yet to be taken up for construction:

Sl. No.	Name of Project	River	Installed Capacity (MW)	Type of Project
1	Kotlibhel-IA NHPC*	Bhagirathi	195	Dam Toe
2	Kotlibhel-IB NHPC*	Alaknanda	320	Dam Toe
3	Kotlibhel-II NHPC*	Ganga	530	Dam Toe
4	Alaknanda GMR*	Alaknanda	300	ROR
5	Pala Maneri UJVNL	Bhagirathi	480	ROR
6	Devsari SJVNL	Pindar	252	ROR
	Total		2077	

\* Held up on account of Hon'ble Supreme Court Order dated 13.08.2013 as reflected in Annex-I

(III) Under Examination:

Sl. No.	Name of Project	River	Installed Capacity (MW)	Type of the Project
1	Jelam Tamak THDCIL*	Dhauliganga	108	ROR
2	Bowala Nand Prayag UJVNL	Alaknanda	300	ROR
	Total		408	

\* Held up on account of Hon'ble Supreme Court Order dated 13.08.2013 as reflected in Annex-I

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2152  
ANSWERED ON 10.03.2016

HIGH ENERGY CONSUMING INDUSTRIES

2152. SHRI NALIN KUMAR KATEEL:

Will the Minister of POWER  
be pleased to state:

- (a) whether the Government has laid down any norms to restrict the consumption of energy by industries and if so, the details thereof;
- (b) whether the Government has identified the high energy consuming industries in the country;
- (c) if so, the details thereof along with the industries following the above norms State-wise and industry-wise; and
- (d) the steps taken by the Government to ensure that the mandatory energy consumption norms are followed by the industries?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) to (c) : Ministry of Power, Government of India has mandated norms for reducing Specific Energy Consumption (SEC) (energy used per unit of production) for 478 industrial units of 8 high energy consuming sectors, under Perform, Achieve and Trade (PAT) scheme of National Mission for Enhanced Energy Efficiency (NMEEE). The target reduction for each industrial unit is based on their current levels of energy efficiency, so that energy efficient units will have low target of percentage reduction, as compared to less energy efficient units which will have higher targets. Overall, the SEC reduction targets aim to secure 4.05% reduction in the total energy consumption of these industries totaling an energy saving of 6.686 million tonne of oil equivalent for the period 2012-13 to 2014-15 (three years).

The State-wise and industry wise detail number of 478 industrial units (Designated Consumers) of 8 sectors covered under PAT are given in Annex.

(d) : Compliance to such energy saving norms and standards are verified by third party Accredited Energy Auditors empanelled by Bureau of Energy Efficiency (BEE). Units which are able to or achieve their targets can receive Energy Savings Certificates (EScerts) for their excess savings. The PAT scheme provides that EScerts shall be tradable, which can be bought by other units under PAT who can use them to meet their compliance requirements. The units which are unable to meet their targets either through their own actions or through purchase of EScerts are liable to financial penalty under the Energy Conservation Act, 2001.

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## ANNEX

ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 2152 ANSWERED IN THE LOK SABHA ON 10.03.2016.

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State/Sector	Aluminium	Chlor-Alkali	Textile	Pulp & Paper	Iron & Steel	Fertilizer	Cement	Thermal Power Plant	Total
Andhra Pradesh		2	1	4	1	2	17	12	39
Assam				2		2		3	7
Bihar							1	2	3
Chhattisgarh	1				21		7	9	38
Delhi								4	4
Goa					3	1		1	5
Gujarat		8	11	2	4	4	8	17	54
Haryana			2	1		1		3	7
Jharkhand	1	1			3		1	5	11
Karnataka	1		2	2	5	1	4	5	20
Kerala		1		1		1	1	5	9
Madhya Pradesh		1	6	2		2	9	4	24
Maharashtra	1		14	2	10	2	4	12	45
Odisha	5			3	15		2	3	28
Puducherry		1						1	2
Punjab		2	11	3		2	1	3	22
Rajasthan		2	31			3	15	7	58
Tamil Nadu		3	5	3		1	9	20	41
Tripura								3	3
Uttar Pradesh	1	1		3	1	7	2	12	27
Uttarakhand				2					2
West Bengal				1	3			13	17
Himachal Pradesh			7				3		10
Meghalaya					1		1		2
Total	10	22	90	31	67	29	85	144	478

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2159  
ANSWERED ON 10.03.2016

IMPORT OF CAPITAL GOODS FOR POWER GENERATION

2159. SHRI NAGAR RODMAL:

Will the Minister of POWER  
be pleased to state:

- (a) whether the Government has borrowed duty-free imports of capital goods for power generation and transmission projects under the Export Promotion Capital Goods Scheme to push their domestic manufacturing;
- (b) if so, the details thereof;
- (c) whether the Directorate of Revenue Intelligence has found cases of second-hand goods being imported and benefit claimed; and
- (d) if so, the details thereof and action taken in this regard?

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 Directorate General of Foreign Trade (DGFT) has issued an amendment Notification No.35/2015-2020 dated 29<sup>th</sup> January, 2016 in respect of Para 5.01(g) of Foreign Trade Policy 2015-2020 clarifying that import of any Capital Goods under Export Promotion Capital Goods (EPCG) scheme for generation/transmission of power is not permitted.

(c) : No case of second hand goods being imported and benefit claimed has been detected by the Directorate of Revenue Intelligence (DRI) during the last three years.

(d) : In view of (c) above does not arise.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2166  
ANSWERED ON 10.03.2016

ULTRA MEGA POWER PROJECTS

2166. SHRI KIRTI AZAD:  
SHRI JAI PRAKASH NARAYAN YADAV:  
SHRI GODSE HEMANT TUKARAM:  
SHRI KAMALBHAN SINGH MARABI:  
SHRI R. GOPALAKRISHNAN:  
SHRI PRABHAKAR REDDY KOTHA:  
SHRI KUNWAR PUSHPENDRA SINGH CHANDEL:

Will the Minister of POWER  
be pleased to state:

- (a) the details of the New/under construction/pending Ultra Mega Power Projects undertaken in the country along with their capacity of power generation including their current status and the steps taken/funds sanctioned to complete the under construction projects State/UT/Project-wise;
- (b) whether any Ultra Mega Power Projects are pending/suffering due to nonaccordance, delay in accordance of environmental clearance/land acquisition/funds/fuel, if so, the details thereof along with the steps taken by the Government to expedite the pending projects;
- (c) whether the Government has recently amended the auctioning policy for UMPPs, if so, the details thereof; and
- (d) the details of the coal blocks allocated to the UMPP in the country, State/UTs-wise/Project-wise?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) & (b) : Four Ultra Mega Power Projects (UMPPs) namely Sasan in Madhya Pradesh, Mundra in Gujarat, Krishnapattnam in Andhra Pradesh and Tilaiya in Jharkhand have already been transferred to the developers. Out of the four awarded UMPPs, two UMPPs at Mundra and Sasan are in operation. The status of the awarded UMPPs is given at Annexure-I.

The power generation capacity of each of the existing and proposed UMPP is 4000 MW approximately. The fund for UMPP is arranged by the developer of the project who is selected through International Competitive Bidding Route as per the Standard Bidding Document issued by Ministry of Power (MoP).

12 more UMPPs are under different stages of development. Environmental clearance is obtained after firm allocation of coal blocks. The status of these UMPPs is given at Annexure-II.

(c) : MoP constituted an Expert Committee under the Chairmanship of Shri Pratyush Sinha, IAS (Retd) and ex-Central Vigilance Commission (CVC) to examine Standard/Model Bidding Documents applicable to UMPPs/Case-2. The Expert Committee has submitted its recommendation on the New Standard Bidding Documents for UMPP based on (i) allocated domestic coal blocks and (ii) imported coal.

(d) : The detail of the coal blocks allocated to the UMPPs is given at Annexure-III.

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ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 2166 ANSWERED IN THE LOK SABHA ON 10.03.2016.

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STATUS OF AWARDED ULTRA MEGA POWER PROJECTS (UMPP)

Sl. No.	Name of UMPP	Location	Status
1	Sasan UMPP (6x660 MW)	Sasan in District Singrauli. Madhya Pradesh	Project awarded and transferred to M/s. Reliance Power Ltd. on 07.08.2007. Project is fully commissioned.
2	Mundra UMPP (5x800 MW)	Mundra in village Tundawand in District Kutch, Gujarat	Project awarded and transferred to M/s. Tata Power Ltd. on 24.04.2007. Project is fully commissioned.
3	Krishnapatnam UMPP (6x660 MW)	Krishnapatnam in District Nellore, Andhra Pradesh	The Project awarded and transferred to M/s. Reliance Power Ltd. on 29.01.2008. The developer has stopped work at site, citing new regulation of coal pricing in Indonesia. The procurers have issued termination notice. The matter is subjudice.
4	Tilaiya UMPP (6x660 MW)	Near Tilaiya village in Hazaribagh and Koderma Districts, Jharkhand	Project awarded and transferred to M/s Reliance Power Ltd on 07.08.2009. The developer (Jharkhand Integrated Power Ltd) has issued notice of termination of Power Purchase Agreement on 28.4.2015 citing non transfer of land to the developer by Jharkhand Government.

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ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 2166 ANSWERED IN THE LOK SABHA ON 10.03.2016.

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STATUS OF OTHER IDENTIFIED ULTRA MEGA POWER PROJECTS (UMPP)

Sl. No.	Name of UMPP	Location	Status
Odisha			
1	Bedabahal Odisha	Bedabahal in Sundergarh District.	Fresh bid would be issued after finalization of Standard Bidding Documents.
2	1st additional UMPP in Orissa	Bijoypatna in Chandbali Tehsil of Bhadrak district for coastal location	Site identified.
3	2 <sup>nd</sup> additional UMPP in Orissa	Narla & Kasinga sub division of kalahandi District for inland location	Site identified.
Chhattisgarh			
4	Chhattisgarh UMPP	Near Salka & Khameraia villages in District Surguja.	Ministry of Coal vide letter dated 8.4.2015 has tentatively recommended coal blocks.
Tamil Nadu			
5	Cheyur UMPP	Village Cheyyur, District Kancheepuram.	Fresh bid would be issued after finalization of Standard Bidding Documents
6	2nd Tamil Nadu UMPP	Site Not finalized	CEA vide letter dated 22.01.15 requested TANGENDCO to identify an alternative site for setting up 2nd UMPP in Tamil Nadu.
Jharkhand			
7	Deoghar (2nd Jharkhand) UMPP	Husainabad, Deoghar Distt	Operating Special Purpose Vehicle (SPV) namely Deoghar Mega Power Ltd and Infrastructure SPV namely Deoghar Infra Limited were incorporated on 26.4.2012 and 30.06.2015 respectively. Ministry of Power has requested Ministry of Coal on 24.02.2016 to identify an alternative suitable coal block, having Geological Report (GR) available.

Gujarat			
8	2nd UMPP in Gujarat	---	On 12.01.2016 a team of CEA & PFCCCL officials visited site in Gir Somnath District identified by Govt of Gujarat to explore the possibilities for setting up of UMPP.
Karnataka			
9	Karnataka	State Govt. has identified a suitable site in Niddodi village of Mangalore taluka Dakshina Kannada District.	Site visit report sent by CEA to Govt. of Karnataka for Niddodi village of Mangalore taluka Dakshina Kannada District highlighting issues with respect to the site and requested for quick resolution of the issues.
Maharashtra			
10	Maharashtra	----	Location is yet to be finalized.
Bihar			
11	Bihar	Kakwara in Banka Distt	Ministry of Coal has tentatively recommended Pirpainti/ Barahat coal blocks. Infrastructure Special Purpose Vehicle (SPV) namely Bihar Infrapower Limited and Operating SPV namely Bihar Mega Power Limited were incorporated on 30.06.2015 and 09.07.2015 respectively.
Uttar Pradesh			
12	UMPP in Uttar Pradesh	Site finalized.	In the meeting held on 21.7.2015 under the Chairmanship of Secretary (Power), Principal Secretary (Energy), Govt. of U.P mentioned that site at Etah has been finalized for UMPP at U.P.

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## ANNEXURE-III

ANNEXURE REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 2166 ANSWERED IN THE LOK SABHA ON 10.03.2016.

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Detail of the coal blocks allocated to the UMPPs

Sl. No	UMPP	Name of Coal Block	Status of Allocation
1	Sasan UMPP	i) Moher	Allocated by MoC vide letter dated 13.09.06
		ii) Moher-Amlori Extension	
		iii) Chhatrasal*	*MoC vide Gazette Notification No. 956 [S.O. No. 1230 (E)] dated 07.05.2015 has cancelled the allocation of the coal block.
2	Orissa UMPP	i) Meenakshi	MoC vide letter dated 17.02.2016 has decided in-principle to allot the coal blocks under the provisions of MMDR Act.
		ii) Meenakshi -B	
		iii) Dip side of Meenakshi	
3	Tilaiya UMPP, Jharkhand	i) Kerandari 'B' and 'C'	Allocated by MoC vide letter dated 20.07.07
4	Surguja UMPP, Chhattisgarh	- BatatiKolga East, - BatatiKolga NE-A, - BatatiKolga NE-B, - BatatiKolga NE-C, - BatatiKolga Central, - BatatiKolga West	MoC vide letter dated 8.4.2015 has tentatively recommended these Coal Blocks.
5	Bihar UMPP	Pirpainti/Barahat	MoC vide letter dated 17.02.2016 has decided in principal to allot the coal blocks.
6	1 <sup>st</sup> Additional UMPP in Odisha	Bankhui	Allocated by MoC vide letter dated 21.06.2010
7	2 <sup>nd</sup> Additional UMPP in Odisha	-	Dip Side of Ghogarpalli (360 MT) and Ghogarpalli (280 MT) coal blocks identified for the project
8	Deoghar UMPP	Gomarpahari-Siulibana	Ministry of Power has requested Ministry of Coal on 24.02.2016 to identify an alternative suitable coal block, having Geological Report (GR) available.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2169  
ANSWERED ON 10.03.2016

POLLUTION FROM THERMAL PLANTS

†2169. SHRI RAMESH CHANDER KAUSHIK:  
SHRI YOGI ADITYA NATH:

Will the Minister of POWER  
be pleased to state:

- (a) whether the Government proposes to close the power generation units run by coal keeping in view of the pollution they create;
- (b) if so, the number of units closed during the last two years, State-wise;
- (c) the status of pollution reduced by closure of such units and whether any survey was conducted in this regard; and if so, the details thereof; and
- (d) if not, the reasons therefor along with the steps taken by the Government in this regard?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) & (b) : No, Madam. However, Delhi Pollution Control Committee (DPCC), in December, 2015, has issued directions that Badarpur Thermal Power Plant should operate only one unit out of its five units and Rajghat Thermal Power Plant of Indraprastha Power Generation Company Limited (IPGCL) Delhi shall not operate any of the two units till March, 2016 due to increasing pollution levels in Delhi.

(c) & (d) : No such study/survey has been made by Central Pollution Control Board. To control emissions from Thermal Power Plants, Ministry of Environment, Forests & Climate Change has notified revised emission standards for coal based thermal power plants on 07.12.2015. The new standards are more stringent.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2198  
ANSWERED ON 10.03.2016

IRREGULARITIES IN NTPC

†2198. SHRI SHAILESH KUMAR:

Will the Minister of POWER  
be pleased to state:

- (a) whether several cases of financial irregularities in NTPC Kahalgaon have come to the notice of the Government;
- (b) if so, the details thereof; and
- (c) the details of the action taken against the officials found involved in the above said irregularities?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) to (c) : Yes, Madam. 03 (Three) cases of financial irregularities were observed at NTPC Kahalgaon in the last 03 years i.e. w.e.f. 01.01.2013 till date. The details of cases and action taken against the officials found involved in the above said irregularities is given at Annexure.

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## ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 2198 ANSWERED IN THE LOK SABHA ON 10.03.2016.

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Sl. No.	Description	Outcome/Action taken
1	Irregularities were observed in supply of outer Arm (CRM), ESP Spare of stage-I, supplied by M/s Dhara Engineering Works, Howrah vide PO No 4000119853 dt. 6.11.13, having an award value of Rs 7,42,500. A part of the ESPs arm was found defective.	Minor penalty proceedings are being initiated against 01 official found involved. Agency replaced the defective part.
2	Irregularities were observed in the Construction of 2nd Raising of Ash Dyke Lagoon-III, AB at NTPC Kahalgaon, awarded to M/s Lotus Construction Co, vide PO No. 5500012033 dt. 09.01.2013. The excess payment to the tune of Rs. 34 lacs was made towards sand filter material & turf sods.	Minor penalty proceedings are being initiated against 02 officials found involved. Recovery of Rs.34,04,226/- was effected from the agency i.e. M/s Lotus Construction Co., towards shortfall in quantity of sand filter material and turf sods.
3	Irregularities were observed in the execution of contract of "Earth filling at both sides of MGR embankment for Bihar Region & Jharkhand Region" vide PO No.4000092499 dated 17.7.2012 & 4000092432 dated 16.7.2012, respectively, awarded to M/s. GPT Infra Projects, Kolkata and M/s Sumrit Mandal & Co. The thickness of stone pitching was found to be 200 - 220 mm instead of 250 mm, having financial implication of Rs 24 lacs approx. The financial implication towards less compaction of earth & slope (during filling) was to the tune of Rs 17 lacs.	Recordable warning was issued on 25.06.2014 to 06 officials found involved. Recovery of Rs 23,98,952.47 from M/s Sumrit Mandal towards stone pitching work at Bihar & Jharkhand region is being realized. Recovery of Rs 17,33,363.19 was effected from M/s GPT Infra project towards less compaction of earth & slope filling work.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2255  
ANSWERED ON 10.03.2016

RISK TO COAL AND GAS POWER PROJECTS

2255. SHRI T. RADHAKRISHNAN:  
DR. HEENA VIJAYKUMAR GAVIT:  
SHRI SATAV RAJEEV:  
SHRI DHANANJAY MAHADIK:

Will the Minister of POWER  
be pleased to state:

- (a) whether ASSOCHAM-Crisil has reported that nearly 36,000 MW of coal based and 10,000 MW of gas based power projects are at high risk in the country;
- (b) if so, the details thereof project-wise and reasons therefor along with the reaction of the Government thereto;
- (c) whether the Government proposes to bring such projects under the 5/25 scheme;
- (d) if so, the benefits these projects are likely to get from this scheme; and
- (e) the corrective steps taken/being taken by the Government to overcome this problem?

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 ASSOCHAM - Crisil report has not been examined in this Ministry.

(c) & (d) : RBI have brought in the 5/25 scheme for infrastructure projects in July 2014. The scheme is expected to ensure long term viability of infrastructure/core industries sector projects by smoothening the cash flow stress in initial years.

(e) : The following are the major initiatives offered by the Government for improving the financial position of the power sector:

- Government of India has sanctioned a scheme for supply of imported spot Regasified Liquefied Natural Gas (RLNG) in 2015-16 and 2016-17 for the stranded gas based power plants as well as for plants receiving domestic gas. The scheme provides for financial support from PSDF (Power System Development Fund).

- After the cancellation of 204 coal blocks by Hon'ble Supreme Court, Government of India had promulgated an Ordinance, i.e., Coal Mines Special Provisions Ordinance, 2014 now replaced by an Act. Government ensured reallocation of 47 blocks to power sector supporting capacity of about 50,000 MW through auction/allotment till date.
- Ministry of Coal has earmarked a separate quantity for power sector within e-auction quantity to make coal available for those power plants which are stressed or in short supply of coal for the reason they do not have coal block or linkage or do not have long term Power Purchase Agreements (PPAs). E-auction has already been conducted separately for PPA holders (long and medium term) by offering a quantity of 5 MT and offering a quantity of 5 MT for others.
- Ministry of Power has launched a scheme UDAY (Ujwal Discom Assurance Yojana) on 20.11.2015, for Operational and Financial turnaround of Power Distribution Companies.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2265  
ANSWERED ON 10.03.2016

LOSS TO NTPC DUE TO DECREASE IN POWER DEMAND

2265. SHRI ANANDRAO ADSUL:  
SHRI DHARMENDRA YADAV:  
SHRI ADHALRAO PATIL SHIVAJIRAO:

Will the Minister of POWER  
be pleased to state:

- (a) whether the decrease in demand of electricity has resulted in loss to NTPC;
- (b) if so, the details thereof and the reasons therefor;
- (c) whether the Government has conducted any study to ascertain the reasons for decrease in the demand of electricity despite shortage of electricity in the country; and
- (d) if so, the details thereof?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) & (b) : NTPC has seen a gradual increase in generation during the last three years as given below :

Year	2014-15	2013-14	2012-13
Generation (BU)	241.26	233.28	232.03

(c) & (d) : There has been no decrease in demand of electricity and it has an increasing trend during last five years. The generation during last five years is also showing an increasing trend in the country. The demand of electricity and details of generation of electricity during last five years are given at Annex.

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ANNEX

ANNEX REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 2265 ANSWERED IN THE LOK SABHA ON 10.03.2016.

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Demand of electricity during last five year

	Energy requirement(MU)	Energy Availability(MU)	Peak Demand(MW)	Peak Met(MW)
2010-11	861591	788355	122287	110256
2011-12	937199	857886	130006	116191
2012-13	995557	908652	135453	123294
2013-14	1002257	959829	135918	129815
2014-15	1068923	1030785	148166	141160

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2272  
ANSWERED ON 10.03.2016

GAS BASED THERMAL PLANTS BY NTPC

†2272. SHRI VISHNU DAYAL RAM:

Will the Minister of POWER  
be pleased to state:

- (a) whether NTPC proposes to install gas based thermal power plants of 500-1000 Megawatts capacity in the country;
- (b) if so, the details thereof;
- (c) whether Jharkhand has also been covered under the scheme; and
- (d) if so, the details thereof?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) : Presently, NTPC has no proposal to install gas based power plants.

(b) to (d) : Question does not arise in view of (a) above,

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2291  
ANSWERED ON 10.03.2016

LOAN FROM OPEN MARKET BY NTPC

†2291. SHRI RAM CHARAN BOHRA:

Will the Minister of POWER  
be pleased to state:

- (a) whether the Government has permitted the National Thermal Power Corporation (NTPC) to mobilise funds by taking loan from open market to tackle situation arising out of consolidated loss incurred by various State Electricity Boards;
- (b) if so, the details thereof; and
- (c) the quantum of funds likely to be mobilised by the NTPC as a result thereof?

A N S W E R

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

( SHRI PIYUSH GOYAL )

(a) : NTPC is a Maharatna Company and it is empowered to mobilize funds from the market for its own requirement without seeking any permission from the Government.

(b) & (c) : Question does not arise in view of the (a) above.

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