

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.104
TO BE ANSWERED ON 12.12.2013

HYDEL POWER PROJECTS

*104. SHRI TAKAM SANJOY:
SHRI LALJI TANDON:

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

- (a) the details of the existing hydel power projects in the country along with the power generation capacity and their total contribution towards power generation, project and State-wise;
- (b) the details of the proposals received from various States including Karnataka for setting up of hydel power projects which are pending with the Government and the time by which they are likely to be approved, proposal and State-wise;
- (c) the details of the hydel power projects accorded clearance by the Government along with the present status of their construction work, total investment involved and their power generation capacities, project and State-wise; and
- (d) the steps taken/being taken by the Government to expedite completion of the ongoing hydel power projects including those in the North-Eastern States, State wise?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

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

STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (d) OF STARRED QUESTION NO. 104 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013 REGARDING HYDEL POWER PROJECTS.

(a) : Details of existing hydro power projects in the country along with the power generation capacity and their total contribution towards power generation, project and State-wise are given at **Annex-I**.

(b) : The details of the proposals received from the States, including Karnataka, along with the present status of examination of each Detailed Project Report are given at **Annex-II**.

(c) & (d) : Details of under construction hydro power projects in the country along with their cost and power generation capacities are given at **Annex-III**. Details of hydro power projects accorded clearance by CEA, which are yet to be taken up for construction, are at **Annex-IV**. As regards, steps taken by the Government to expedite completion of the ongoing hydro power projects in States, including those in the North-Eastern States, the details are:-

- A Task Force on Hydro Project Development has been constituted to look into all issues relating to development of hydro power including issues of rehabilitation and resettlement of project affected persons. The Task Force is headed by Minister of Power. Six meetings of the Task Force have been held so far, the latest being on 10.09.2013.
- Central Electricity Authority (CEA) is monitoring the power projects in pursuance of Section 73 (f) of Electricity Act, 2003. The progress of each project is monitored continuously through frequent site visits, interaction with the developers and critical study of monthly progress reports. Chairperson, CEA holds regular meetings with the developers and other stakeholders to sort out the critical issues.
- A Power Project Monitoring Panel (PPMP) has been set up by the Ministry of Power to independently follow up and monitor the progress of the hydro projects.
- Review meetings are taken by Ministry of Power regularly with the concerned officers of CEA, equipment manufacturers, State Utilities/CPSUs/Project developers, etc. to sort out the critical issues.
- Review meetings are taken by Ministry of Power/CEA with Border Road Organisation, Ministry of Road Transport and Highways etc. to sort out the infrastructure issues especially in the North-East.
- Government has constituted an Empowered Group of Ministers to consider and resolve various outstanding issues concerning development of the North Eastern Region.

ANNEX REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 104 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013 REGARDING HYDEL POWER PROJECTS.

INSTALLED CAPACITY AND CONTRIBUTION IN TOTAL GENERATION OF H.E. STATION (IC ABOVE 25 MW)
IN THE COUNTRY DURING THE YEAR 2013-14

Name of the Stations	Installed Capacity as on 30.11.2013 (MW)	Contribution in total Generation 2013-14* (Upto Nov 30, 2013) (MU)
NORTHERN REGION		
CENTRAL		
BBMB		
1. Bhakra L&R (Himachal Pradesh)	1325.00	4547.58
2. Ganguwal (Punjab)	77.65	359.74
3. Kotla (Punjab)	77.65	343.55
4. Dehar (Himachal Pradesh)	990.00	2696.80
5. Pong (Himachal Pradesh)	396.00	1100.15
Total BBMB	2866.30	9047.82
NHPC		
1. Baira Siul (Himachal Pradesh)	198.00	501.67
2. Salal-I & II (Jammu & Kashmir)	690.00	2712.67
3. Tanakpur (Uttarakhand)	94.20	354.38
4. Chamera-I (Himachal Pradesh)	540.00	1976.90
5. Chamera-II (Himachal Pradesh)	300.00	1218.89
6. Chamera-III (Himachal Pradesh)	231.00	860.97
7. Uri (Jammu & Kashmir)	480.00	1952.22
8. Uri-II (Jammu & Kashmir)	180.00	118.51
9. Dhauliganga (Uttarakhand)	280.00	282.31
10. Dulhasti (Jammu & Kashmir)	390.00	1821.05
11. Sewa-II (Jammu & Kashmir)	120.00	357.09
12. Chutak (Jammu & Kashmir)	44.00	19.79
13. Nimboo Bazdo (Jammu & Kashmir)	45.00	11.31
Total NHPC	3592.20	12187.76
SJVNL		
1. Nathpa Jhakri (Himachal Pradesh)	1500.00	6314.76
THDC		
1. Tehri (Uttarakhand)	1000.00	3134.15
2. Koteswar (Uttarakhand)	400.00	1174.68
Total THDC	1400.00	4308.83
Total Central	9358.50	31859.17
HIMACHAL PRADESH		
HPSEBL		
1. Giri Bata	60.00	177.62
2. Bassi	60.00	186.37
3. Sanjay	120.00	462.00
4. Larji	126.00	510.22
Total HPSEBL	366.00	1336.21
MALANA POWER CO. LTD. (MPCL)		
1. Malana	86.00	291.10

JAIPRAKASH POWER VENTURE LTD.(JPVL)		
1. Baspa-II	300.00	1213.20
2. Karcham Wangtoo	1000.00	4192.93
TOTAL JPVL (HP)	1300.00	5406.13
ALLAIN DUHANGAN HYDRO POWER LTD (PVT)		
1. Allain Duhagan (Pvt.)	192.00	657.93
LANCO GREEN POWER LTD		
1. Budhil (Pvt.)	70.00	234.55
EVEREST POWER PRIVATE LTD		
1. Malana - II (Pvt.)	100.00	330.26
Total H.P.	2114.00	8256.18
JAMMU & KASHMIR		
JKSPDC		
1. Lower Jhelum	105.00	395.79
2. Upper Sindh II	105.00	182.57
3. Baglihar	450.00	2287.61
Total JKSPDC	660.00	2865.97
RAJASTHAN		
RRVUNL		
1. R.P. Sagar	172.00	299.06
2. Jawahar Sagar	99.00	179.01
3. Mahi Bajaj I&II	140.00	134.16
Total RRVUNL	411.00	612.23
PUNJAB		
PSPCL		
1. Shanan	110.00	287.10
2. Mukerian I-IV	207.00	719.27
3. A.P.Sahib I&II	134.00	530.87
4. Ranjit Sagar (Thien Dam)	600.00	1288.06
Total PSPCL	1051.00	2825.30
UTTAR PRADESH		
UPJVNL		
1. Rihand	300.00	340.24
2. Obra	99.00	142.43
3. Matatilla	30.60	75.34
4. Khara	72.00	321.50
Total UPJVNL	501.60	879.51
UTTARAKHAND		
UJVNL		
1. Khatima	41.40	87.09
2. Ram Ganga	198.00	128.98
3. Dhakrani (Y.St.I)	33.75	134.80
4. Dhalipur (Y.St.I)	51.00	201.14
5. Kulhal (Y.St.IV)	30.00	135.82
6. Chibro (Y.St.II)	240.00	771.61
7. Chilla	144.00	581.91
8. Khodri (Y.St.II)	120.00	350.62
9. Maneri Bhali-I	90.00	296.01
10. Maneri Bhali-II	304.00	702.37
Total UJVNL	1252.15	3390.35
JAIPRAKASH POWER VENTURE LTD.(JPVL)		
1. Vishnu Prayag	400.00	437.90
Total UTTARAKHAND	1652.15	3828.25
Total NORTHERN REGION	15748.25	51126.61

WESTERN REGION		
GUJARAT		
SSNNL		
1. Sardar Sarovar CHPH	250.00	448.19
2. Sardar Sarovar RBPH	1200.00	4090.13
Total SSNNL	1450.00	4538.32
GSECL		
1. Ukai	300.00	681.97
2. Kadana PSS	240.00	358.19
Total GSECL	540.00	1040.16
Total GUJARAT	1990.00	5578.48
MADHYA PRADESH		
CENTRAL/ COMMON		
NHDC		
1. Indira Sagar	1000.00	3028.37
2. Omkareshwar	520.00	1170.14
TOTAL NHDC	1520.00	4198.51
MPPGCL		
1. Gandhi Sagar	115.00	238.78
2. Pench	160.00	310.89
3. Bargi	90.00	363.09
4. Madhikhera	60.00	92.52
5. Bansagar Tons-I	315.00	1140.24
6 Bansagar Tons-II	30.00	139.15
7 Bansagar Tons-III	60.00	75.66
8. Rajghat	45.00	32.83
Total MPPGCL	875.00	2393.16
Total M.P.	2395.00	6591.67
CHHATISGARH		
CSPGC		
1. Hasdeo Bango	120.00	223.48
Total CSPGC	120.00	223.48
MAHARASHTRA		
MAHAGENCO		
1. Koyna St.I& II	600.00	831.18
2. Koyna St.III	320.00	457.22
3. Koyna IV	1000.00	990.91
4. Koyna DPH	36.00	104.97
5. Vaitarna	60.00	115.22
6. Tillari	60.00	86.04
7. Bhira Tail Race	80.00	76.51
8. Ghatghar PSS	250.00	182.42
Total MAHAGENCO	2406.00	2844.47
DODSON-LINDBLOM HYDRO POWER PVT. LTD. (DLHP)		
1.Bhandardhara - II	34.00	53.12
Total DLHP	34.00	53.12
TATA HYDRO		
1. Bhira	150.00	719.14
2. Bhira PSS	150.00	
3. Bhivpuri	75.00	172.06
4. Khopoli	72.00	233.42
Total Tata	447.00	1124.62
Total Maharashtra	2887.00	4022.21
Total Western	7392.00	16415.84

SOUTHERN REGION		
ANDHRA PRADESH		
APGENCO		
1. Machkund	114.75	399.09
2. T.B.Dam & Hampi	72.00	116.54
3. Upper sileru I&II	240.00	264.01
4. Lower Sileru	460.00	831.67
5. N.J.Sagar PSS	815.60	1013.35
6. N.J.Sagar RBC	90.00	207.88
7. N.J.Sagar LBC	60.00	88.66
8. Srisaillam RB	770.00	908.28
9. Pochampad	27.00	48.58
10.Srisaillam LB	900.00	1276.56
11. Priyadarshni	234.00	267.23
Total APGENCO	3783.35	5421.85
Total A.P.	3783.35	5421.85
KARNATAKA		
KPCL		
1. Sharavathy	1035.00	3313.04
2. Kalinadi	855.00	1339.11
3. Supa DPH	100.00	217.82
4. Bhadra	39.20	37.90
5. Lingnamakki	55.00	152.23
6. Varahi	460.00	836.32
7. Ghatprabha	32.00	55.89
8. Kadra	150.00	266.10
9. Kodalali	120.00	211.78
10.Gerusoppa	240.00	404.76
11.Almatti Dam	290.00	418.80
12.Jog	139.20	149.75
13.Shivasamudram	42.00	165.02
14.Munirabad	28.00	77.25
Total KPCL	3585.40	7645.77
Total Karnataka	3585.40	7645.77
KERALA		
KSEB		
1. Idukki	780.00	1797.41
2. Sabarigiri	300.00	1102.26
3. Kuttiadi	125.00	682.52
4. Kuttiadi Addn. Extn.	100.00	
5. Sholayar	54.00	137.55
6. Sengulam	48.00	106.28
7. Nariamangalam	70.00	301.59
8. Pallivasal	37.50	151.08
9. Poringalkuthu	32.00	104.92
10.Panniar	30.00	127.96
11.Idamalayar	75.00	271.00
12.Lower Periyar	180.00	531.92
13.Kakkad	50.00	169.89
Total KSEB	1881.50	5484.38
Total Kerala	1881.50	5484.38
TAMIL NADU		
TANGEDCO		
1. Pykara	59.20	47.06
2. Moyar	36.00	103.55
3. Kundah I-V	555.00	1084.86

4.Parson's Valley	30.00	36.51
5. Suruliyar	35.00	81.21
6. Aliyar	60.00	133.63
7. Mettur Dam & Tunnel	250.00	389.94
8. Lower Mettur I-IV	120.00	174.03
9. Periyar	140.00	402.53
10. Papansam	32.00	102.75
11.Sarkarpathy	30.00	65.62
12.Sholayar I&II	95.00	175.61
13.Kodayar I&II	100.00	95.17
14.Kadamparai PSS	400.00	285.99
15.Pykara Ultimate	150.00	287.39
16.Bhawani Kattalai Barrage-I	30.00	32.04
17.Bhawani Kattalai Barrage-II	30.00	59.93
18.Bhawani Kattalai Barrage-III	30.00	25.04
Total TANGEDCO	2182.20	3582.86
Total Southern	11432.45	22134.86
EASTERN REGION		
JHARKHAND		
JSEB		
1. Subernarekha I&II	130.00	110.90
Total Jharkhand	130.00	110.90
DVC		
1. Maithon (West Bengal)	63.20	76.36
2. Panchet (Jharkhand)	80.00	106.21
Total DVC	143.20	182.57
ODISHA		
OHPC		
1. Balimela	510.00	1393.17
2. Hirakud I&II	347.50	858.03
3. Rengali	250.00	799.46
4. Upper Kolab	320.00	677.60
5. Upper Indravati	600.00	1888.91
Total OHPC	2027.50	5617.17
WEST BENGAL		
WBSEDCL		
1. Jaldhaka - I	27.00	123.30
2. Ramman II	50.00	222.57
3. Purulia PSS	900.00	388.32
Total WBSEDCL	977.00	734.19
NHPC		
1. Teesta Low Dam-III	132.00	176.85
Total NHPC WB	132.00	
Total West Bengal	1109.00	911.04
SIKKIM		
NHPC		
1. Rangit	60.00	294.23
2. Teesta-V	510.00	2157.37
Total NHPC (Sikkim)	570.00	2451.60
PRIVATE SECTOR		
GATI INVESTMENTS PVT LTD		
1. Chuzachen	99.00	254.85
Total Eastern	4078.70	9528.13

NORTH EASTERN REGION		
ASSAM		
APGCL		
1. Karbi Langpi	100.00	371.27
MEGHALAYA		
MeECL		
1. Kyrdemkulai	60.00	97.93
2. Umium St.I	36.00	51.06
3. Umium St. IV	60.00	137.58
4.Myntdu	126.00	400.87
Total MeECL	282.00	687.44
NEEPCO		
1. Khandong (Assam)	50.00	163.88
2. Kopili (Assam)	225.00	680.78
3. Doyang (Nagaland)	75.00	222.69
4. Ranganadi (Arunachal Pradesh)	405.00	842.69
Total NEEPCO	755.00	1910.04
NHPC		
1. Loktak (Manipur)	105.00	499.64
Total Central	860.00	2409.68
Total N.Eastern	1242.00	3468.39
TOTAL ALL INDIA	39893.40	102673.83
IMPORT FROM BHUTAN		5309.28
TOTAL ALL INDIA	39893.40	107983.11
*Tentative		

ANNEX REFERRED TO IN PART (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 104 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013 REGARDING HYDEL POWER PROJECTS.

Details of Hydro Electric Schemes under examination in CEA

S. No.	Scheme/ State	Month of Receipt	Installed Capacity (MW)	Status of DPR
	Jammu & Kashmir			
1	Kiru	08/2012	660	Cleared from hydrology, power potential studies, geological, construction material, inter-State, power evacuation and instrumentation aspects.
2	New Ganderwal	10/2012	93	Cleared from hydrology, power potential studies, geological, construction material, inter-State, power evacuation, design of E&M works, barrage & canal design, foundation engineering & seismic aspects and hydel civil design and plant planning aspects.
3	Kirthai-I	01/13	390	Cleared from hydrology, power potential studies, power evacuation aspects.
	Himachal Pradesh			
4	Seli	12/12	400	Cleared from all aspects except hydel civil design, gates design, quantities of civil works & E-M equipments, plant planning, cost of Civil & E-M works and phasing of cost.
5	Chhatru	04/2012	126	Cleared from all aspects except gates design, E&M design, quantities of civil works & E-M equipments, plant planning, cost of Civil & E-M works and phasing of cost.
6	Sach Khas	01/13	267	Cleared from hydrology, power potential studies, geological, power evacuation and construction power aspects.
7	Luhri	03/2013	588	Cleared from hydrology, power potential studies, construction material, concrete dam design, gates design, inter-State, inter-national, foundation engineering & seismic and instrumentation aspects.
8	Chango Yangthang	11/2013	180	Cleared from all aspects except construction material, plant planning, cost of Civil & E-M works and phasing of cost.
	Uttarakhand			
9	Jelam Tamak	12/2012	108	Cleared from all aspects except hydel civil design, dam design, gates design, construction material, quantities of civil works & E-M equipments, cost of Civil & E-M works and phasing of cost.
10	Bowala Nand Prayag	08/12	300	Cleared from hydrology, power potential studies, inter-State, inter-national, power evacuation, hydel civil design, gates design, foundation engineering & seismic aspects and construction power aspects.
	Bihar			
11	Dagmara	04/12	130	Developer has been advised to reduce cost of the project and to comply with the observations of CEA and CWC.

	Nagaland			
12	Dikhu	04/12	186	All aspects cleared except construction material, civil quantities, cost of civil works and phasing of cost.
	Meghalaya			
13	Umngot	03/2013	240	Cleared from hydrology and inter-state aspects.
14	Kyunshi-I	02/2013	270	Cleared by STC on conversion from storage to ROR, hydrology, power potential studies, power evacuation, geological and instrumentation aspects.
	Assam			
15	Lower Kopli	03/2013	120	Cleared from hydrology, power evacuation, inter-State and geological aspects.
	Arunachal Pradesh			
16	Kalai -II	04/2012	1200	All aspects cleared except plant planning, cost of civil works and phasing of cost.
17	Demwe Upper	07/2012	1080	Cleared by STC on conversion from storage to ROR, hydrology, power potential studies, power evacuation, foundation engineering & seismic, gates design, construction material and instrumentation aspects.
18	Tagurshit	07/2012	74	Cleared from all aspects except geological, construction material, foundation engineering & seismic, quantities of civil works & E-M equipments, cost of Civil & E-M works and phasing of cost.
19	Nyukcharong Chu	01/2013	96	Cleared from hydrology, power potential studies, power evacuation and inter-state aspects.
20	Tato-I	05/13	186	Cleared from hydrology and power evacuation aspects.
21	Heo	07/2013	240	Cleared from hydrology and power evacuation aspects.
22	Subansiri Middle (Kamla)	10/2013	1800	Cleared from hydrology and power potential studies aspects.
23	Magochu	10/2013	96	Cleared from hydrology and power potential studies aspects.
	Total		8830	

ANNEX REFERRED TO IN PARTS (c) & (d) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 104 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013 REGARDING HYDEL POWER PROJECTS.

Status of under construction Hydro Electric Projects above 25 MW (As on 30.11.2013)

Sl. No	Name of Project Executing Agency Capacity (MW) Cost (Rs. crores)	State	Broad Present Status
A.	Hydro Capacity for benefits during 12th Plan- Under Execution		
	Central Sector		
1.	Uri-II NHPC 4x60 = 240 MW Cost: 2081.00	<u>J&K</u>	U#1: Commissioned on 25.09.2013. U#3: Commissioned on 27.09.2013. U#2: Commissioned on 16.11.2013
2.	Kishanganga NHPC 3x110 = 330 MW Cost: 3642.04	<u>J&K</u>	Diversion Works – River diversion achieved on 21.06.2012. Dam & Intake works: 290000 cum excavation of left bank completed out of 300000 cum. HRT: 7903 m excavation completed out of 8491 m by DBM. 11478 m excavation completed out of 14750 m by TBM. Surge Shaft: Excavation sinking from top completed. Pressure Shaft: Upper limb slashing- 176m completed out of 233m. Lower limb-pilot- 163m completed out of 261 m. Power House: Excavation completed. TRT Excavation: 666 m excavation completed out of 882 m.
3.	Parbati-II NHPC 4x200 = 800 MW Cost: 5365.70	<u>H.P.</u>	Dam & Intake Structure- 204220 cum Dam & Inlet structure concreting out of 207296 cum completed. Head Race Tunnel- 26615 m excavation out of 31525m completed Total Overt lining: 17124 m lining out of 31525m completed. Power House: 55276 cum concreting completed out of 64016 cum. Jiwa Nallah Feeder Tunnel: 3801m excavation out of 4560m completed. 531m concreting out of 4560m completed. E&M Works: Erection, testing & commissioning of one EOT Crane (200MT) completed. Erection of 2 nd 200T EOT and cabling completed. Unit 1: Erection of Turbine housing and distributor completed. Unit 2: Erection of lower Turbine Housing completed. HM Works: Erection of ferrules in both Vertical Pressure Shafts completed. In surge shaft erection of Reception frame & Guide rail completed.
4.	Parbati-III NHPC 4x130 = 520 MW Cost: 2470.46	<u>H.P.</u>	All civil works completed. E&M Works: Unit #1: Mechanical spinning was done at rated speed on 31.05.2013. Unit #2: Mechanical spinning was done at rated speed on 02.07.2013. Unit #3: Unit Boxing up and axis alignment completed on 30.09.2013. Unit #4: Assembly of pivot ring, top cover with runner & Guide Vane completed. Assembly of rotor is in progress in Service Bay. Termination of XLPE cable completed on 15.10.2013.

			MIV's for all units commissioned. HM Works: completed.
5.	Kol Dam NTPC 4x200 = 800 MW Cost: 6358.91	<u>H.P.</u>	E&M Works: All units boxed up. HM Works: Erection of Radial Gates is in progress. Erection of 7 Draft tube gates out of 8 has been completed. Erection of Bottom outlet gates completed. Erection of Power Intake gates liners for all units completed.
6.	Ram Pur SJVNL 6x68.67= 412 MW Cost: 2047.03	<u>H.P.</u>	HRT: Heading excavation completed. E&M Works: U #1, 2, 4, 5, 6: Boxed up. U #3: Concreting of Generator barrel completed on 15.05.13.
7.	Tapovan Vishnugad NTPC 4x130 = 520 MW Cost: 3846.30	<u>Uttarakhand</u>	River diversion achieved on 13.04.2013 Barrage: Excavation earlier completed. HRT: excavation 9087 m completed out of 13370 m. PH Cavern: Excavation completed. Desilting Chamber & Intake: Excavation 15.03 lakh m ³ out of 16.90 lakh m ³ completed. TRT: Excavation completed. Lining 602m out of 813m completed. Surge shaft: Full widening completed. Lining of 81.2 cum out of 152.3 cum completed. Penstock: Excavation completed. Erection of steel liner in inclined PS-I from intermediate to top completed and in PS-2 from intermediate to top also completed. E&M works: Erection of EOT crane in BF Valve Chamber completed. Pit liner erection on all 4 units completed.
8.	Teesta Low Dam-IV NHPC 4x40 = 160 MW Cost: 1502.00	<u>West Bengal</u>	Power House: 121682 cum concreting completed out of 134373 cum. Concrete around the Penstock: 5654 cum completed out of 12000 cum. Power Dam & Intake Structure (upto top level): 55479 cum concreting completed out of 70000 cum. RCC Concreting: 51700 cum completed out of 178000 cum. E&M Works: Erection of EOT crane completed in service Bay. Erection of Spiral case of all Units completed. For Unit#1, Turbine &, Rotor assembly erection completed. For Unit#2, Bottom ring has been lowered in pit. HM Works: 90.6% erection of Radial gates completed. Erection of penstock liner completed. 76% erection of Intake gates completed. 77% erection of silt excluder gates completed. 62.3% erection of spillway stoplog gates completed. 57.3% erection of Intake stoplog gates completed.
9.	Subansiri Lower NHPC 8x250= 2000 MW (1000 MW in 12 th Plan) Cost: 10667.00	Arunachal Pradesh Assam	Dam: Excavation- 169441 cum completed out of 173000 cum. Concreting: 575426 cum completed out of 1823782 cum. Intake Structure: 261377 cum concreting completed out of 279454 cum. Head Race Tunnel (I-VIII): 7050 m heading excavation completed out of 7124m. 4279 m benching excavation completed out of 7124 m. 3199 m concrete overt lining completed out of 7124 m. Surge Tunnels (8 nos.): 3109 m heading excavation completed out of 3545 m. Vertical Pressure Shaft Slashing: 199 m excavation out of 384 m completed. Surface Power House:

			<p>Concreting: 124887 cum out of 302600 cum completed.</p> <p>E&M Works:</p> <p>Unit #1 & 2: Turbine stay ring and Spiral case erection completed.</p> <p>HM Works: Erection of diversion tunnel gates 23% completed.</p> <p>Erection of Intake-5: 2% completed.</p> <p>Erection of Intake 7 & 8 – 20% completed each.</p> <p>201 m pressure shaft steel liner erected out of total 1594 m.</p>
10.	<p>Kameng NEEPCO 4x150 = 600 MW Cost: 5139.00</p>	Arunachal Pradesh	<p>Bichom Dam: Excavation 649075/682126 cum and Concreting 40075/357490 cum completed.</p> <p>Tenga Dam: Excavation 125615/135000 cum and Concreting 31365/92850 cum completed.</p> <p>HRT: Excavation: 12388.85/14477.50 RM completed.</p> <p>Surge Shaft: Open excavation and boring completed, Surge Shaft & Orifice concrete Lining: 62/70 RM completed.</p> <p>HPT: Boring of vertical and horizontal portion completed & Open excavation of Surface Penstock including valve house 396764/462504 cum completed.</p> <p>Power House & Tail Race: Pit excavation 1085376/1092184 cum completed. Concreting 40892/75600 cum completed.</p> <p>Electro-mechanical works: Earth mat in service bay area for Unit # I to III completed. Erection of Draft tube for Unit# I & II completed.</p>
11.	<p>Pare NEEPCO 2x55 = 110 MW Cost: 1117.9</p>	Arunachal Pradesh	<p>Diversion Tunnel: DT completed and construction of u/s and d/s coffer dams completed.</p> <p>Dam: Excavation 272510 cum out of 398000 cum completed.</p> <p>HRT : Boring 2561RM out of 2828 RM completed.</p> <p>High Pressure Tunnel: Boring completed</p> <p>Surge shaft: Open excavation & Boring of surge shaft completed and Lining 30.8/59 Rm completed. .</p> <p>Power House: Excavation 119406/125000 cum completed. Concreting 17456.5/35000 cum completed.</p> <p>E&M Works: Erection of DT liners of Unit I & II completed.</p> <p>HM Works:. Fabrication of 3 nos. draft tube gates completed. Erection of D/T Intel Gate completed.</p>
12.	<p>Tuirial NEEPCO 2x30= 60 MW Cost: 913.63</p>	Mizoram	<p>Diversion Tunnels (2 Nos.) : Excavation completed and 625/765m & 732/775m lining completed.</p> <p>Main Dam: Excavation 71600 cum out of 430100 cum completed.</p> <p>Spillway: Excavation 1632385 cum out of 1754801 cum completed. Concreting 7532 cum out of 92500 cum completed.</p> <p>Power House & Switchyard: Excavation almost completed.</p>
	State Sector		
13.	<p>Baglihar-II JKPDC 3x150= 450 MW Cost: 2113.09</p>	J&K	<p>HRT: Excavation completed, 1028m Overt lining out of 1888m completed and Invert lining 636m out of 1888m completed.</p> <p>Surge Shaft: Excavation nearing completion.</p> <p>Penstock: Excavation 8339 cum is completed out of 10000 cum.</p> <p>PH: Excavation almost completed.</p> <p>TRT: Heading and Benching excavation is completed.</p>

14.	Uhi-III Beas Valley Power Corporation Ltd. (HPSEB) 3x33.3 =100 MW Cost: 431.56	<u>H.P.</u>	Storage Reservoir: Excavation and concreting completed. HRT: Excavation completed and lining 974 m is completed out of 8010 m. Surge Shaft: Completed Penstock: Excavation 152775 cum out of 155000 cum is completed and 34863 cum out of 35300 cum concreting completed. Power House and Tail Race: 30988 out of 31300 cum excavation completed and 11503 cum out of 13100 cum concreting completed. E&M: Unit #1: Centering & Leveling of Runner completed. Unit #2: Centering, Leveling and Alignment of Generator shaft completed. Unit #3: Erection completed.
15.	Kashang-I H.P. Power Corpn. Ltd. 65 MW Cost: 1079.81 (including Stage-II & III)	<u>H.P.</u>	Trench Weir: 3738 cum out of 3743 cum concreting completed. HRT: Excavation completed and 1063 m lining from (intake end) out of 1113 m completed. Pressure Shaft: Excavation of valve housetop horizontal pressure shaft completed. 575 M backfill concrete completed out of 1346 M. E&M works: Model test completed. TRT concrete lining 188 m out of 335 m completed.
16.	Kashang-II & III H.P. Power Corpn. Ltd. 1x65 + 1x65= 130 MW	<u>H.P.</u>	Works of Kerang-Kashang link (KK Link) tunnel awarded to M/s Patel Engineering Ltd. Works getting delayed due to continuous agitation by Lippa villagers. The matter is sub-judice.
17.	Sainj H.P. Power Corpn. Ltd. 100 MW Cost: 725.24	<u>H.P.</u>	Barrage: Concreting in 2-bays out of 6 bays completed. HRT: 935m of invert lining completed in Face-I. 2066 M excavation out of 2120 M completed in Face-II. Main Access Tunnel to Power House excavation is completed. Power House: Excavation completed. E&M Works: Laying of earth mat - 5187m is completed out of 10108m. TRT: Excavation completed.
18.	Swara Kuddu H.P. Power Corpn. Ltd. 3x37= 111 MW Cost: 1181.90	<u>H.P.</u>	HRT: 9639 m out of 11364 m from all faces of HRT excavation completed and 1117 m out of 11364 m concreting is completed. Surge Shaft: Excavation completed. Power house: Excavation completed. TRT: excavation is completed. E&M Works: Erection of DT liner in P.H. completed.
19.	Nagarajuna Sagar TR APGENCO 2x25=50 MW Cost: 958.67	<u>A.P.</u>	Main Dam: Excavation at dam area is completed and 511854/532500 cum concreting completed. P.H. Civil works: Completed. Unit Erection: Unit-1- Rotor & Stator assembly completed in service bay. Unit-2- Stator assembly completed in service bay. H&M works Re-awarded to GTV-PES (JV) on 11.5.2009. Fabrication of all 20 radial gates completed. Erection of 3910 MT is completed against 7435 MT.
20.	Lower Jurala APGENCO 6x40=240 MW Cost: 1474.83	<u>AP</u>	Excavation for approach channel, Intake pool, Power house pit completed. Weir: 415276/416700 cum excavation done. 172321/219039 cum concreting completed. Power House: Excavation completed. 191817/203000 cum concreting done. Unit Erection:

			<p>Unit #1: Boxed up.</p> <p>Unit ##2: Erection of turbine & Generator completed.</p> <p>Unit #3 : Stay cone erected. Assembly of Stator & Rotor completed in service bay and ready for erection.</p> <p>Unit #4 : Stay cone erected.</p> <p>Unit # 5: Erection of Stay cone completed.</p> <p>Unit # 6: Erection of DT cone completed.</p>
21.	<p>Pulichintala APGENCO 120 MW (4x30 MW) Cost: 396</p>	<u>A.P.</u>	<p>Power House: The excavation of power house almost completed and 5873692000 cum concreting done.</p> <p>E&M Works:</p> <p>Unit #1 & #2: Erection of draft tube completed and released for concreting.</p> <p>Unit #3: Extension of draft tube air vent pipes completed.</p> <p>Unit #4: Laying of draft tube drain pipes completed.</p>
22.	<p>Pallivasal KSEB 2x30= 60 MW Cost: 268.02</p>	<u>Kerala</u>	<p>Intake structure: Excavation - 28398/33492 cum completed.</p> <p>HRT: Excavation -2858/3330 m completed. Overt conc. 1634/3330 m completed. Invert Conc.. - 1637/3330 m completed.</p> <p>Surge Tank/Forebay: Exc.-7210/13400 cum. Conc.409/843 cum.</p> <p>Pressure Shaft: Excavation- Completed.</p> <p>Surface penstock : Excavation -102507/122600 cum. Concreting- 8554/11375 cum. 1190m out of 2036m erection completed.</p> <p>Power House: Excavation completed. Concreting 3536/11225 cum.</p> <p>Tail race Channel (2 Nos.): Excavation & lining completed.</p> <p>E&M Works: 75% supply completed. Pit liner erection, erection of distributor pipe and MIV for both the units completed.</p>
23.	<p>Thottiyar KSEB 1x30 + 1x10= 40 MW Cost: 145.77</p>	<u>Kerala</u>	<p>Weir: 3194 cum excavation out of total 5850 cum completed.</p> <p>Approach Channel & Intake: 3184 cum out of 9100 cum done.</p> <p>Power Tunnel : 164 cum excavation out of 2300 cum completed.</p> <p>Power House, switchyard & allied works: 28957 cum excavation out of 44500 cum and 808 cum concreting out of 15675 m done.</p>
24.	<p>New Umtru MeECL, 2x20=40 Cost: 226.40</p>	<u>Meghalaya</u>	<p>Dam: Excavation 46184 cum out of 208685 cum completed. Concreting 13118 cum out of 73488 cum completed.</p> <p>Intake: Excavation of 26984 cum out of 30000 cum completed. Concreting 8862 cum out of 13000 cum completed.</p> <p>HRT: Excavation completed. Erection of steel support completed. Lining 13886 cum out of 14000 cum completed.</p> <p>Pressure Shaft: Completed.</p> <p>Surge shaft: Open excavation completed and concreting also completed.</p> <p>Power House: Excavation completed.</p> <p>TRT: Open excavation & tunnel boring completed.</p> <p>E&M Draft tube erection completed for both units.</p>

	Private Sector		
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25.	Sorang Himachal Sorang Power Corporation Ltd. 2x50= 100 MW Cost: 586.00	<u>H.P.</u>	Civil works: Almost completed. Penstock: Works almost completed. E&M works: Both the units boxed up.
26.	Tidong-I M/s NSL Tidong Power Gen. Ltd. 2x50 = 100 MW Cost: 543.15	<u>H.P.</u>	Barrage: Excavation completed. 4735 cum out of 4865 cum concreting done. HRT: 4 km out of 8.6 km excavation completed. Surge Shaft: 12.6 m out of 110 m pilot hole excavation completed. Power House: 95% excavation and 25% concreted completed. Pressure Shaft: Excavation completed except upper & lower inclined portion.
27.	Tangnu Romal-I M/s Tangu Romai Power Generation 2x22= 44 MW Cost: 255.00	<u>H.P.</u>	Diversion Cannel: Slope cutting is in progress. Desilting Chambers & SFT: Excavation is in progress. HRT – 1900 m out of 6267m excavation completed. Power House: 27075 cum out of 52000 cum excavation completed.
28.	Shrinagar GVK Industries Ltd. 4x82.5=330 Cost: 2069.00	<u>Uttarakhand</u>	Unit Erection: Unit #2: Stay ring alignment completed.
29.	Phata Byung M/s Lanco 2x38 MW = 76 MW Cost: 720.00	<u>Uttarakhand</u>	Diversion Tunnel: River diverted. Dam concreting: 17800/18000 cum concreting completed. P.H.: Excavation completed. HRT: Excavation 8474/9228 m completed. Excavation and lining of Intake-I & Intake-II completed. Cable tunnel: Completed. TRT: Excacation 178/235m completed.
30.	Singoli Bhatwari M/s L&T 3x33 MW = 99 MW Cost : 666.47	<u>Uttarakhand</u>	River diversion – Completed. Dam & Dykes/Barrage: Excavation 68842/90744 cum and concreting 46981/76500 cum completed. HRT: Excavation 8300/11255 m completed. Pressure Shaft: Excavation 440.5/485 m completed. PH: Excavation completed & concreting 6517/18000 cum completed. Surge Tank: Excavation completed.
31.	Maheshwar, SMHPCL 10x40= 400 MW Cost: 2449.20	<u>M. P.</u>	Civil & HM Works: All major civil works completed. Unit Erection: Unit-10: Initial spinning achieved on 14.10.2011. Unit-9 & 8: Ready for spinning. Unit-7: Guide apparatus trial assembly in progress. Unit-6: Erection of turbine embedded parts & foundation parts completed. Works suspended by BHEL in Nov-11 due to cash flow problem with developer.
32.	Teesta-III Teesta Urja Ltd. (TUL) 6x200=1200 MW Cost: 5705.55	<u>Sikkim</u>	Dam: CFRD, 9.74 lacs cum material placed out of 11.5 lacs cum. HRT: Excavation completed. 10269 M overt lining completed out of 13824 M and 2207 M invert lining completed out of 13824 M. Excavation of all the access tunnels to the Machine Hall, GIS hall & TRT completed. Surge Shaft: 158 m shaft excavated by shaft sinking method. 1716 cum of concreting has been completed out of 8994 cum. Pressure shaft excavation: Excavation completed.

			Power House: Excavation completed. Excavation of Transformer cavern also completed. TRT: Excavation completed. 1267 m overt lining out of 1336 m completed.
33.	Teesta-VI LANCO 4x125= 500 MW Cost: _3283.08	<u>Sikkim</u>	Barrage and Desilting: Excavation 983349/1934000 cum & concreting 191184/380003 cum completed. HRT: Excavation 1217402/2447447 cum completed & concreting 191184/680562 cum completed. Surge Tank: Excavation completed & concreting 12377/54873 cum completed. Excavation of Main access Tunnel, ventilation Tunnel, Adit to Transformer cavern, cable tunnel and Adit to BFV chamber completed. P.H.: Excav. completed & conc. 21945/44578 cum completed Transformer Cavern: Excavation completed & concreting 2539/7101 cum completed. TRT: Excav.completed. Lining 24837/43725 cum completed. Cable Tunnel & Trenches: Excavation completed.
34.	Rangit-IV Jal Power corp. Ltd. 3x40= 120 MW Cost: _726.17	<u>Sikkim</u>	Dam & Intake works: Excavation 290733/519887 cum completed and concreting 61008.5 cum out of 145413 cum completed. Excavation of road diversion tunnel has been completed. HRT: Excavation in progress and 3557 m out of 6488 m completed. Surge Shaft: Excavation has been completed. Power House: The work of approach road to power house completed. Desilting chamber: Excavation 2121 m out of 3360 m completed.
35.	Jorethang Loop M/s DANS Energy 2x48 = 96 MW Cost: 403.00	<u>Sikkim</u>	HRT: Excavation 5903 m/6718 m completed. Barrage : All major civil works are completed. Surge Shaft: Excavation completed and lining upto EL 366.00 (55 m) completed. Pressure Shaft: The bottom horizontal tunnel (80.10 m) is completed. Power House: Excavation completed. Tail Race Channel: Excavation & Concreting completed. E&M works: Unit-1 & 2: Spiral casing and stay ring erection completed & Hydraulic pressure test completed. Erection & concreting of draft tube for both the units completed. HM Works: Both Under Sluice service gates are erected. All five service spillway gates are fabricated.
36.	Bhasmey Gati Infrastructure 3x17= 51 MW Cost : 408.5	<u>Sikkim</u>	Diversion tunnel completed. HRT: Adits 309.85 Rm/781.97 Rm completed. Power House: Excavation 181117/216147 cum completed. Pressure Tunnel/Shaft: Excavation 40Rm out of 559.84 Rm completed.

B.	Hydro Capacity for benefits beyond 12 th Plan- Under Execution
	Central Sector

37.	Tehri PSS, THDC, 4x250=1000 MW Cost: 2978.86	<u>Uttarakhand</u>	Penstock Assembly Chamber: Crown slashing in a length of 26.5RM out of total 95 RM completed. PH: Crown slashing of Power House cavern (203m) completed. Surge Shafts downstream (2nos): Pilot shaft excavation for both the shafts completed. TRT (2 Nos- 1000m & 1095m.): ,129 RM Out of 1070 RM in TRT-1 and 83.4 RM Out of 1160 RM in TRT-2 Heading has been achieved.
38.	Lata Tapovan, NTPC 3x57= 171 MW Cost: 792.00	<u>Uttarakhand</u>	Under Pre-construction activities.
9b	Subansiri Lower NHPC 8x250= 2000 MW (1000 MW in 12 th Plan) Cost: 10667.00	Arunachal <u>Pradesh</u> Assam	As in 9 (a) above
	State Sector		
39.	Shahpurkandi Irrigation Deptt. &PSPCL 3x33+3x33+1x8=206 MW Cost: 2285.81	<u>Punjab</u>	Civil works of Main Dam and Hydel Channel awarded.
40.	Shongtong Karcham H.P. Power Corpn. Ltd. 3x150= 450 MW Cost: 2807.83	<u>H.P.</u>	HRT: The first blast of Adit-II taken on 27.2.13 and 94 M out of 907 M completed. Works of Approach Road to Adit-3 commenced. Excavation of Adit-4 started and 7 M out of 403 M completed. E&M: Not yet awarded.
41.	Koyna Left Bank PSS WRD. 2x40 = 80 MW Cost: 379.78	<u>Maharashtra</u>	Civil Works: Excavation of Switchyard completed. Machine Hall : 21300 cum excavation out of 55050 cum completed. E&M works: Works awarded.
	Private Sector		
42.	Ratle Ratle Hydro Electric Project Pvt. Ltd. 4x205+1x30= 850 MW Cost : 5517.02	<u>J&K</u>	EPC Contract for Civil & HM works awarded to M/s GVK Projects & Technical Services Limited on 04.07.2013. Under Pre-construction activities
43.	Bajoli Holi M/s GMR Bajoli Holi Hydro Power Pvt. Limited Cost: 1696.93	<u>H.P.</u>	Civil Works awarded to M/s Gammon India Ltd. on 29.05.2013.
44	Chanju-I M/s IA Energy 3x12=36 MW Cost : 295.09	<u>H.P.</u>	Civil works and E & M works awarded.

45.	Tashiding M/s Shiga Energy Pvt. Ltd. 2x48.5 = 97 MW Cost : 465.95	<u>Sikkim</u>	HRT (Total- 5437m) : Excavation on Face-1: 818.50 m, Face-2 : 564.0 m, Face-3: 907.70 m, Face-4: 495 m, Face 5&6 :7.50m have been completed. Surge Shaft : Surface preparation for Adit to Surge Shaft has been completed. E&M Works : Works awarded. Power House : Reinforced cement concrete of pre-excavation anchor beam at El 732.00 m is 89% completed. Cladding wall concreting of 95% has been completed. Surface Excavation work is 63% completed. Shotcreting work is 40% is completed.
46.	Dikchu Sneha Kinetic Power Projects Pvt. Ltd. 3x32= 96 MW Cost : 639.57	<u>Sikkim</u>	Dam : Excavation 54000 cum out of 86762 cum completed. HRT : Excavation 72 RM out of 5456 RM completed. Power House : Excavation 22317 cum out of 43570 cum completed. TH : Excavation 8914 cum out of 9177 cum completed. TRT : Excavation 195 Rm out of 295 Rm completed. Main Access Tunnel : Excavation completed.
47.	Rangit-II Sikkim Hydro Power Limited 2x33= 66 MW Cost : 497.17	<u>Sikkim</u>	EPC contract awarded to M/s Coastal in February, 2012.
48.	Rongnichu Madhya Bharat Power Corporation Ltd. 2x48= 96 MW Cost : 491.32	<u>Sikkim</u>	Under Pre-construction activities.

ANNEX REFERRED TO IN PARTS (c) & (d) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 104 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013 REGARDING HYDEL POWER PROJECTS.

List of Hydro Electric Schemes concurred by CEA and yet to be taken up for construction

S. No.	Scheme	Installed Capacity (MW)
Northern Region		
Jammu & Kashmir		
1	Pakal Dul	1000
Himachal Pradesh		
2	Kutehr	240
3	Miyar	120
Uttarakhand		
4	Vishnugad Pipalkoti	444
5	Kotlibhel St-IA	195
6	Kotlibhel St-IB	320
7	Kotlibhel St-II	530
8	Pala Maneri	480
9	Alaknanda	300
10	Rupsiyabagar Khasiyabara	261
11	Vyasi	120
12	Devsari	252
Sub- Total : NR :		4262
WESTERN REGION		
Chhattisgarh		
13	Matnar HEP	60
Sub- Total : WR :		60
EASTERN REGION		
West Bengal		
14	Rammam St-III	120
Orissa		
15	Jalaput Dam Toe	18
Sikkim		
16	Teesta St-IV	520
17	Panan	300
Sub - Total: ER		958
SOUTHERN REGION		
Kerala		
18	Athirappilly	163
Andhra Pradesh		
19	Indirasagar (Polavaram)	960
Karnataka		
20	Gundia	200
Sub - Total: SR		1323
N- E Region		
Manipur		
21	Tipaimukh	1500
22	Loktak D/S	66

Arunachal Pradesh		
23	Dibang	3000
24	Dibbin	120
25	Lower Siang	2700
26	Nafra	120
27	Nyamjang Chhu	780
28	Tawang St-I	600
29	Tato-II	700
30	Tawang St-II	800
31	Demwe Lower	1750
32	Gongri	144
33	Hirong	500
34	Etalin	3097
35	Talong Londa	225
36	Naying	1000
37	Siyom	1000
Mizoram		
38	Kolodyne St-II	460
Sub -Total NER		18562
Total : All India		25165

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.114
TO BE ANSWERED ON 12.12.2013

EQUIPMENT FOR POWER PROJECTS

†*114. DR. MAHENDRASINH P. CHAUHAN:
SHRI ARJUN RAY:

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

- (a) whether the use of Chinese power generation equipment has increased in the country during the last few years as compared to the use of indigenously manufactured equipment;
- (b) if so, the details thereof and the reasons therefor;
- (c) whether any evaluation was made by the Central Electricity Authority (CEA) regarding the performance of Chinese power generation equipment *vis-a-vis* the indigenously produced ones and if so, the conclusions reached by CEA thereon;
- (d) whether the Government proposes to make structural changes in the import policy for power related equipment in the country; and
- (e) if so, the details thereof along with the steps taken/being taken by the Government to keep the cost of equipment required for Ultra Mega Power Projects (UMPPs) low and to reduce the dependency on imported power equipment in the country?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

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

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO. 114 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013 REGARDING EQUIPMENT FOR POWER PROJECTS.

(a) & (b): Out of total thermal capacity addition of 75222.7 MW in the 11th and 12th Plan (till November, 2013), main plant equipment for 28492 MW have been supplied by the Chinese manufacturers, mostly to Private Sector Developers.

(c) : The performance of Chinese equipment vis-à-vis Indian equipment based on sub-critical technology and installed in the thermal power stations during the first four years of the 11th Plan was analysed by the Central Electricity Authority. The conclusions of the study are as follows:

- Both Chinese and BHEL units have adequate flow margins over maximum continuous ratings except Chinese 330 MW units.
- The Operating Load Factor of Chinese stations based on indigenous coal is lower than for BHEL units. However, the Operating Heat Rate of Chinese indigenous coal based units is higher than in BHEL units.
- The BHEL units show remarkably better performance with respect to Secondary Fuel oil consumption as compared to Chinese units based on indigenous coal.
- The operating Load Factor, operating Heat Rate and Secondary Fuel oil consumption of Chinese units based on Imported coal are better than BHEL units based on domestic coal

(d) & (e): The following steps have been taken by the Government of India to reduce dependency on imported power equipment and to keep the cost of equipment required for Ultra Mega Power Projects (UMPPs) competitive :

- i. Government has decided that a provision for mandatory use of main plant equipment manufactured in India be incorporated in the Standard Bidding Guidelines, specifically in UMPPs.
- ii. Normative Station Heat Rate (SHR) for the purpose of fuel charge has been prescribed in order to incentivize the efficient equipment and fuel consumption.
- iii. An advisory was issued to all Central and State thermal power generating companies by CEA advising incorporation of condition of phased indigenous manufacture by suppliers in bids to be invited for Boilers and Turbine generators of Supercritical projects up to October-2015, on similar lines as in bulk orders approved by the Govt.
- iv. Apart from BHEL's capacity of 20,000 MW, several joint venture(s) for the manufacture of Super critical boiler (16000 MW/Year) and turbine (15000 MW/Year) have been set up in the country. The resulting competition would lead to competitive prices for power plant equipment.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1153
TO BE ANSWERED ON 12.12.2013

DEMAND OF POWER

1153. SHRI RAJIAH SIRICILLA:

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

- (a) whether the coal-bearing States are demanding 12 per cent free power from independent power producers in line with the national hydro power policy;
- (b) if so, the details thereof; and
- (c) the action taken/being taken by the Government in this regard?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER
(SHRI JYOTIRADITYA M. SCINDIA)

(a) to (c) : Some resource rich States like Chhattisgarh, Odisha, Madhya Pradesh & Jharkhand are of the view that coal bearing States be adequately compensated for the adverse impact on their environment and infrastructure as according to them the revenue accrual from royalty on coal is less compared to 12 per cent free power given to host States of hydro power projects.

No decision on the above request has been taken by the Government.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1159
TO BE ANSWERED ON 12.12.2013

ALLOCATION OF POWER

1159. SHRI RAMSINH RATHWA:

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

- (a) whether the share of power amongst States out of the allocated share from Central Power Units of Western Zone has been reduced by the Union Government;
- (b) if so, the details thereof and the reasons therefor along with the shortage of power being faced by those States as a result thereof, State-wise; and
- (c) the manner in which the Union Government proposes to compensate this shortage?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) to (c) : During the current year, the share of power amongst Western Region States/UTs from Central Sector Generating Stations (CGSs) situated in Western Region has not been reduced from firm share allocation of 15141 MW. Allocation from unallocated power of Western Region CGSs was modified from time to time based on relative power shortage in other regions/states of the country as per standard process. Accordingly, 180 MW power has been reduced from the unallocated quota. The reduction would not result in adverse power shortage in Western Region as compared to power shortage situation in rest of the country/other States/other Regions.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1167
TO BE ANSWERED ON 12.12.2013

POWER GENERATION FROM NAPHTHA

1167. SHRI G.M. SIDDESHWARA:

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

- (a) the number of power projects cleared/sanctioned by the Government with Naphtha as feedstock during the last three years and the current year, State-wise;
- (b) the total power generation in MW expected from Naphtha-based projects in the country;
- (c) the average power generation cost per unit from the said projects;
- (d) whether the Government proposes to import Naphtha for the purpose;
- (e) if so, the details thereof, State/UT-wise; and
- (f) the annual foreign exchange likely to be exhausted by the time all the projects are commissioned?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER
(SHRI JYOTIRADITYA M. SCINDIA)

(a) : As per the Electricity Act, 2003, no sanction/clearance is required for setting up thermal power plants or power plants using Naphtha as feed stock.

(b) : As per record of Central Electricity Authority, the total power generation from Naphtha based projects in the country for the month of October, 2013 is Nil.

(c) to (f) : In view of (b) above does not arise.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1173
TO BE ANSWERED ON 12.12.2013

SALE OF POWER

1173. SHRI ANANDRAO ADSUL:
SHRI ADHALRAO PATIL SHIVAJI:

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

- (a) whether the Planning Commission has suggested allowing private power plants to sell 50 percent of their output in the open market instead of extending subsidy to commercial power producers for using imported gas as fuel;
- (b) if so, the details thereof and the response of the Ministry of Power in this regard; and
- (c) the present status thereof?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER
(SHRI JYOTIRADITYA M. SCINDIA)

(a) to (c) : The possibility of pooling imported Re-gassified Liquefied Natural Gas with domestic gas and other options for improving the viability of gas based power plants is under examination. No decision has been taken on the above.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1174
TO BE ANSWERED ON 12.12.2013

EMPLOYMENT IN THDC

†1174. SHRIMATI MALA RAJYA LAXMI SHAH:

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

- (a) whether families displaced by the Tehri Dam Project are being given priority for employment in THDC India Limited in Tehri, Uttarakhand;
- (b) if so, the details thereof and if not, the reasons therefor;
- (c) the details of appointments made to various posts in the THDC projects including Engineers during the last three years, post-wise; and
- (d) the number of local persons appointed to such posts during the aforesaid period?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) & (b) : THDCIL has appointed 822 persons in Tehri Dam Project from the Project Affected Area based on the Implementation Agreement signed with the State Government.

(c) & (d) : 49 personnel were recruited during the last 03 years, of which 9 are local persons. Post-wise details are given below:

Sl. No.	Year	Name of the Post	No. of Personnel
1.	2010	Geologist	02
2.	2010	Attendant	02
3.	2011	Engineer	01
4.	2011	Accounts Officer	01
5.	2011	Company Secretary (Trainee)	01
6.	2011	Jr. Technician	01
7.	2012	Dy. Manager (F)	02
8.	2012	Engineer (Trainee)	36
		Management (Trainee)	03

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1193
TO BE ANSWERED ON 12.12.2013

ALLOCATION OF FUNDS

†1193. SHRI RAMKISHUN:

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

- (a) whether funds have been allocated to Uttar Pradesh for complete electrification of the rest of the villages and small hamlets during the last three years; and
- (b) if so, the details thereof and if not, the reasons therefor?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) & (b) : There is no upfront allocation of funds for any State under Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY). Funds are released against sanctioned projects in installments based on the reported utilization of amount of the previous installment(s) and fulfillment of other conditionalities.

Under RGGVY, 72 projects were sanctioned during Phase-II of 11th Plan in the year 2011. Out of this, 22 projects were sanctioned for the State of Uttar Pradesh, covering electrification of 245 un-electrified villages, 19,991 partially electrified villages and release of free electricity connection to 9,43,641 Below Poverty Line (BPL) households.

The Government has approved continuation of RGGVY in 12th Plan to electrify balance census villages and all habitations above 100 populations and all eligible BPL households in the country including state of Uttar Pradesh.

.....2.

39 projects (5-Madhya Pradesh, 6-Uttar Pradesh and 28-Rajasthan) have been sanctioned under RGGVY during 12th Five Year Plan. Out of which, 6 projects have been sanctioned for the state of Uttar Pradesh, covering electrification of 92 un-electrified villages, 3,179 partially electrified villages and release of free electricity connection to 2,54,601 Below Poverty Line (BPL) households.

Under Xth and XIth Plan, Rs.4150.50 Crore (including subsidy) has been released, in 86 projects, for Uttar Pradesh.

Under RGGVY, funds (including loan and subsidy) released by Rural Electrification Corporation (REC) to the State of Uttar Pradesh during the last three years, are as under:

	2010-11	2011-12	2012-13	Rs. in crore Cumulative funds released as on 15.11.2013 (includes funds released prior to 2010-11)
Funds(including loan and subsidy)	72.44	95.47	103.63	4150.50

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1200
TO BE ANSWERED ON 12.12.2013

FUNDS RAISED BY PGCIL

1200. DR. P. VENUGOPAL:

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

- (a) whether the Government has allowed Power Grid Corporation of India Limited (PGCIL) to raise about Rs. 7,500 crore;
- (b) if so, the details thereof;
- (c) whether the PGCIL is considering to make use of the said fund for the purpose of its new projects; and
- (d) if so, the details thereof?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) & (b) : Yes, Madam. Government of India has allowed Power Grid Corporation of India Limited (PGCIL) for Further Public Offer (FPO) of 787,053,309 equity shares (17% of paid up capital) consisting of fresh issue of 601,864,295 equity shares (13% of paid up capital) and disinvestment of 185,189,014 equity shares (4% of paid up capital) by Government of India out of its holding in POWERGRID. The proceeds of about Rs. 6900 crore is likely to be raised from Further Public Offer consisting of about Rs. 5300 crore from fresh issue of shares and about Rs. 1600 crore through disinvestment of shares.

(c) & (d) : Yes, Madam. The funds raised through fresh issue of equity shares shall be utilized by PGCIL for capital expenditure of various ongoing transmission projects. The details of projects are at **Annex**.

ANNEX REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 1200 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013.

List of the Projects for deployment of FPO Proceeds

Sl. No.	Projects
1	Transmission System for connectivity of Essar Power Gujarat Limited
2	Transmission System associated with Rihand-III & Vindhyachal-IV
3	Transmission System For Phase-I Generation Projects in Orissa (Part- C)
4	Southern Region System Strengthening - XIX (SRSS - XIX)
5	TS strengthening in western part of WR FOR IPP Generation Projects in Chhattisgarh - DPR 4
6	Transmission System for Krishnapatnam UMPP -PART B
7	Common system associated with ISGS projects in Krishnapatnam Area of Andhra Pradesh
8	Common system associated with Coastal Energen Private Limited and Ind-Barath Power (Madras) Limited LTOA Generation Projects in Tuticorin Area (Part-B)
9	Establishment of Pooling Stations at Champa and Raigarh (near Tamnar) for IPP Generation Projects in Chhattisgarh (DPR- 2)
10	Establishment of Pooling Stations at Raigarh (Kotra) and Raipur for IPP Generation Projects in Chhattisgarh (DPR- 1)
11	Southern Region System Strengthening - XVIII (SRSS - XVIII)
12	Transmission system for Phase I generation Projects in Orissa -Part A
13	Transmission System for IPP generation projects in Madhya Pradesh & Chhattisgarh
14	Integration of Pooling Stations in Chhattisgarh with central part of WR for IPP Generation Projects in Chhattisgarh (DPR - 3)
15	System strengthening in Wardha-Aurangabad corridor for IPP Projects in Chhattisgarh (DPR -7)
16	Transmission system for Phase I generation Projects in Orissa -Part B
17	Immediate Evacuation System associated with Barh-II TPS - Generation-linked
18	Northern Region System Strengthening-XXI (NRSS-XXI)
19	Transmission system for establishment of 400/220kV GIS Substation at Magarwada in UT DD
20	Transmission System for Transfer of power from Generation Projects in Sikkim to NR/ WR - Part -B
21	Transmission system for Phase-I generation projects in Jharkhand and West Bengal - Part-B:
22	Transmission System for Phase - I Generation Projects in Jharkhand and West Bengal - Part A2
23	Common System associated with East Coast Energy Private Limited and NCC, Power Projects Limited LTOA Generation Projects in Srikakulam Area-Part-A
24	Transmission System associated with Pallatana Gas Based Power Project and Bongaigaon Thermal Power Station (TS for bongaigaon merged)
25	Transmission System associated with Mauda Stage-II (2x660 MW)
26	Northern Region System Strengthening-XXVI (NRSS-XXVI)
27	Northern Region System Strengthening-XXV (NRSS-XXV)

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1224
TO BE ANSWERED ON 12.12.2013

SHARING OF POWER

†1224. SHRI BHARAT RAM MEGHWAL:

Will the Minister of **POWER** be pleased to refer to the reply given to USQ No. 2777 dated 14th March, 2013 regarding Agreement for Hydel Power Project and to state the details of the steps taken by the Union Government to decide the share of power to Haryana and Rajasthan from the Hydro Power Projects of Punjab?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

As stated in reply to the Lok Sabha Unstarred Question No.2777 for 14.03.2013, a number of discussions have taken place in the past to resolve the issue, but a consensus could not be arrived at due to the divergent views of the stakeholder States. It may, further, be mentioned that the issue of share of power from Hydro Power Projects of Punjab is sub-judice in the Hon'ble Supreme Court of India in Original Suit No.3 of 2009 in the matter of State of Haryana Vs. State of Punjab and others.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1225
TO BE ANSWERED ON 12.12.2013

AFFECT ON POWER PRODUCTION

1225. SHRI BHISMA SHANKER ALIAS KUSHAL TIWARI:

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

- (a) whether power generation in Uttar Pradesh and some other States has been affected by agitations in some coal mining States;
- (b) if so, the details thereof, State-wise;
- (c) the number of such incidents which had led to fall in power generation in the country during each of the last three years and the current year, State-wise; and
- (d) the corrective measures being taken or proposed to be taken by the Government in this regard?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) to (c) : The electricity generation in the State of Uttar Pradesh during last three (3) years has not been affected by agitation in the coal mining states.

Generation loss as reported by the affected Power Utilities during last three years and current year due to agitation in the coal mining states is given below:

Power Utility	Power Station	Reported Generation loss (Million Unit)
2010-11		
NTPC	Talcher STPS	90.3
2011-12		
NTPC	Ramagundam STPS	546.2
	Simhadri STPS	214.2
APGENCO	Kakatiya	28.0
MSPGCL	Parli	98.1

2012-13		
NTPC	Dadri STPS	53.5
	Simhadri STPS	8.3
	Talcher STPS	13.7
2013-14 (upto 3rd December, 2013)		
NTPC	Simhadri STPS	45.9
	Talcher STPS	
APGENCO : Andhra Pradesh Power Generation Corporation Limited MSPGCL : Maharashtra State Power Generation Co. Limited		

(d) : During such contingencies, the coal supply to the power stations likely to be affected is enhanced in advance and coal is also supplied through alternative coal source wherever possible.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1226
TO BE ANSWERED ON 12.12.2013

STATUS OF RGGVY

†1226. SHRI MAKAN SINGH SOLANKI:

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

- (a) the present status of Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) in Khargone and Barwani areas of Madhya Pradesh;
- (b) the time by which implementation of the Scheme is likely to be completed in the said areas;
- (c) whether the forest villages have also been covered under the Scheme; and
- (d) if so, the details thereof and if not, the reasons therefor?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) & (b) : Under Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY), the projects of district Khargone and Barwani of Madhya Pradesh were sanctioned during Phase-II of 11th Plan on 16.12.2011. Both the projects were awarded on 26.03.2012. The coverage and achievements of these projects are as under:

As on 15.11.2013

District of Madhya Pradesh	Un-electrified villages		Partially electrified villages		BPL households	
	Coverage	Achievement	Coverage	Achievement	Coverage	Achievement
Khargone	6	3 (50%)	1169	204 (17%)	44471	6153 (14%)
Barwani	-	-	647	52 (8%)	21975	800 (4%)

The stipulated period of completion of these projects are 24 months from the date of award of the contracts by the implementing agencies i.e. by the end of March, 2014.

(c) & (d) : All the villages including forest villages as proposed by the implementing agencies have been sanctioned.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1234
TO BE ANSWERED ON 12.12.2013

HYDRO POWER PROJECTS IN NORTH-EAST

1234. SHRI BADRUDDIN AJMAL:

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

- (a) whether Bangladesh has opposed the construction of dams for Hydro Power Projects in Meghalaya and Manipur and whether such a move will result in power shortage in these States;
- (b) if so, the details thereof;
- (c) whether Bangladesh wants to sort out this issue in the Joint River Commission;
- (d) if so, the details thereof; and
- (e) the steps taken/being taken by the Government to resolve the dispute in this regard with Bangladesh at the earliest and to solve the acute power shortage problems in these States?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) to (e) : Bangladesh has raised its concern regarding the Tipaimukh Hydro-Electric (Multipurpose) Project (1500 MW) in Manipur and Mawphu (85MW) and Myntdu (84 MW) dam in Meghalaya. Meetings have been held by the Sub-Group constituted under India-Bangladesh Joint River Commission, for joint study as per agreed Terms of Reference (ToR) for the Tipaimukh Project. As regards the Projects in Meghalaya, the Bangladesh side has been informed that the Projects in Meghalaya are at conceptual stage and only some investigation work has been done for preparation of the DPR. To mitigate the power shortage in Manipur and Meghalaya, the assistance from Central Generating Station (CGS) as on 30.11.2013 is 123 MW and 206 MW respectively. In addition, the likely benefits from CGS during the 12th Plan would be 136.5 MW and 186.5 MW respectively.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1243
TO BE ANSWERED ON 12.12.2013

LAND ACQUISITION FOR POWER PROJECTS

†1243. SHRI BALIRAM JADHAV:

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

- (a) the details of the policy laid down by the Government to grant compensation to the affected people for the land acquired for various power projects including the Government and private power projects;
- (b) whether any compensation has been paid to the affected people for the land acquired for various thermal power projects in various States including Maharashtra during each of the last three years and the current year; and
- (c) if so, the details thereof, year and State-wise?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) : National Rehabilitation & Resettlement Policy 2007 addresses the need to provide succor to the asset less rural poor, support the rehabilitation efforts of the resource poor sections, namely small and marginal farmers, SCs/STs and women who have been displaced. It seeks to provide a broad canvas for an effective dialogue between the Project Affected Families (PAFs) and the Administration for Resettlement & Rehabilitation (R&R) to enable timely completion of project with a sense of definiteness as regards costs and adequate attention to the needs of the displaced persons. The rehabilitation grants and other monetary benefits proposed in the Policy specify minimum limits applicable to all project affected families, and the states are free to adopt their own higher level packages.

A new Land Acquisition, Rehabilitation & Resettlement Act has been passed by Government. This will have more participation of local people in terms of Land Acquisition and Rehabilitation & Resettlement.

(b) & (c) : Data is not maintained in the Ministry regarding compensation paid for State Sector and Private Sector thermal projects.

As far as National Thermal Power Corporation Ltd. (NTPC) is concerned, the compensation paid by NTPC to the State Government during each of the last three years (2010, 2011 & 2012) and the current year (2013) is as under year-wise and State-wise:

Sl. No.	Name of Project	State	Compensation paid to the State Government for Land Acquired (Rs. In Crores)
1.	Tanda	U.P.	182.74
2.	Nabinagar, NPGCPL, JV with Government of Bihar	Bihar	381.94
3.	Gadarwara	M.P.	80.00
4.	Khargone	M.P.	76.21
5.	Barethi	M.P.	138.00
6.	Lara	Chhattisgarh	296.00
7.	Darlipalli	Orissa	287.14
8.	Kudgi (KIADB Act route)	Karnataka	37.06

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1251
TO BE ANSWERED ON 12.12.2013

SALE OF POWER BY PRIVATE DISTRIBUTION COMPANIES

1251. SHRI GORAKH PRASAD JAISWAL:
SHRI S. ALAGIRI:

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

- (a) whether the private power distribution companies have been authorized by the Government to sell power even if they do not have any surplus power available with them;
- (b) if so, the details thereof and the reasons therefor; and
- (c) the details of power sold by the private power distribution companies even when they did not have surplus power available with them during each of the last three years along with the details of those benefited from the same?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER
(SHRI JYOTIRADITYA M. SCINDIA)

(a) & (b): Yes, Madam. The distribution companies are authorized under the Act to sell power to any person. The last proviso of Section 14 of the Electricity Act, 2003 provides as under :

“Provided also that distribution licensees shall not require a licence to undertake trading in electricity. Accordingly, distribution companies are authorized to trade in electricity.”

(c) : The Central Electricity Regulatory Commission (CERC) compiles data on short-term bilateral transactions through inter-state trading licensees and, as per data details given by CERC, power sold by the private power distribution companies for the years 2010-11, 2011-12 and 2012-13 respectively are provided in **Annex-I, II & III**.

ANNEX REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 1251 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013.

Traders Bilateral Transaction, 2010-11 (Excluding Banking)				
Actually Scheduled Volume (Mus)	Name of the Seller	State	Name of the Buyer	State
0.73	BRPL	Delhi	HPPC	Haryana
28.30	BRPL	Delhi	KSEB	Kerala
0.10	BRPL	Delhi	PCKL	Karnataka
0.70	BRPL	Delhi	MSEDCL	Maharashtra
47.04	BRPL	Delhi	RDPPC	RAJASTHAN
134.04	BRPL	Delhi	UPCL	Uttarakhand
31.58	BRPL	Delhi	APPCC	ANDHRA PRADESH
17.49	BYPL	Delhi	NPCL	UTTAR PRADESH
31.03	BYPL	Delhi	UPPCL	Uttar Pradesh
1.20	BYPL	Delhi	MSEDCL	Maharashtra
45.00	BYPL	Delhi	KSEB	KERALA
99.05	BYPL	Delhi	UPCL	Uttarakhand
47.03	BYPL	Delhi	RDPPC	RAJASTHAN
0.90	NDPL	Delhi	APPCC	ANDHRA PRADESH
1.26	NDPL	Delhi	UPCL	Uttaranchal
1.99	NDPL	Delhi	UPPCL	UTTAR PRADESH
0.35	Tata Power	Maharashtra	NDPL	Delhi
131.12	Tata Power Mumbai	Maharashtra	PSPCL	Punjab
19.50	TPCL	Maharashtra	TNEB	Tamilnadu
0.30	TPCL	Maharashtra	VAL	ORISSA
119.25	Torrent Power	Gujarat	APPCC	Andhra Pradesh
211.75	Torrent Power	Gujarat	TNEB	Tamil Nadu
31.39	Torrent Power	Gujarat	TANGEDCO	Tamil Nadu
65.42	Torrent Power	Gujarat	MSEDCL	Maharashtra
77.27	Torrent Power	Gujarat	UPPCL	Uttar Pradesh
17.99	Torrent Power	Gujarat	UT CHD	Chandigarh
270.19	Torrent Power	Gujarat	PCKL	Karnataka
16.68	Torrent Power	Gujarat	BESCOM	Karnataka
64.22	Torrent Power	Gujarat	MPPTC	Madhya Pradesh
18.90	Torrent Power	Gujarat	KISPL	Inter State licensee
56.09	Torrent Power	Gujarat	JVVNL	Rajasthan
35.63	Torrent Power	Gujarat	RDPPC	Rajasthan

ANNEX REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 1251
TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013.

Traders Bilateral Transaction, 2011-12 (Excluding Banking)				
Actually Scheduled Volume (Mus)	Name of the Seller	State	Name of the Buyer	State
36.31	BRPL	DELHI	APPCC	ANDHRA PRADESH
0.99	BRPL	NEW DELHI	KSEB	KERALA
28.08	BRPL	Delhi	MSEDCL	Maharashtra
0.17	BYPL	Delhi	WBSEDCL	West Bengal
0.75	NDPL	Delhi	RDPPC	Rajasthan
55.01	NDPL	Delhi	APPCC	Andhra-Pradesh
94.95	NDPL	Delhi	MPPTC	Madhya-Pradesh
27.23	NDPL	Delhi	WBSEDCL	West-Bengal
12.41	RIL	Maharashtra	MPPTC	Madhya Pradesh
2.95	RINFRA	MAHARASHTRA	APPCC	ANDHRA PRADESH
28.70	Tata Power Mumbai	Maharashtra	MPPTC	Madhya-Pradesh
0.40	TPC(L)	Maharashtra	WBSEDCL	West-Bengal
35.77	TORRENT	Gujarat	APPCC	Andhra Pradesh
48.08	TORRENT	Gujarat	MPPTC	Madhya Pradesh
51.26	Torrent Power	Gujarat	PCKL	Karnataka

ANNEX REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 1251 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013.

Traders Bilateral Transaction, 2012-13 (Excluding Banking)				
Actually Scheduled Volume (MU)	Purchased from-Seller Name	Purchased from State	Sold to Name of Buyer- State	Sold to State
0.36	BYPL	Delhi	EEL	MAHARASHTRA
3.52	BYPL	Delhi	UPPCL	UP
2.26	BYPL	Delhi	MSEDCL	Maharashtra
7.65	BYPL	Delhi	MPPMCL	Madhya Pradesh
115.76	BYPL	Delhi	RDPPC	Rajasthan
71.77	BYPL	Delhi	VIPL	Maharashtra
0.50	NDPL (TPDDL)	Delhi	JSEB	Jharkhand
0.29	NDPL (TPDDL)	Delhi	VARDMF	Madhya Pradesh
0.26	NDPL (TPDDL)	Delhi	VARDMN	Madhya Pradesh
21.61	NDPL (TPDDL)	Delhi	MPPTC	Madhya Pradesh
12.77	NDPL (TPDDL)	Delhi	MPPMCL	Madhya Pradesh
68.63	NDPL (TPDDL)	Delhi	Torrent-D	Gujarat
3.19	NDPL (TPDDL)	Delhi	NPCL	Uttar Pradesh
4.65	NDPL (TPDDL)	Delhi	APDCL	Assam
1.42	NDPL (TPDDL)	Delhi	ESIL	Gujarat
6.62	NDPL (TPDDL)	Delhi	PSPCL	Punjab
0.44	NDPL (TPDDL)	Delhi	APNRL	West Bengal
183.43	NDPL (TPDDL)	Delhi	UPCL	Uttarakhand
5.13	NDPL (TPDDL)	Delhi	KSEB	Kerala
0.59	NDPL (TPDDL)	Delhi	STL	Maharashtra
5.70	NDPL (TPDDL)	Delhi	UPPCL	Uttar Pradesh
8.10	NDPL (TPDDL)	Delhi	UT-C	Chandigarh
4.74	NDPL (TPDDL)	Delhi	AVVNL	Rajasthan
6.38	NDPL (TPDDL)	Delhi	JVVNL	Rajasthan
5.23	NDPL (TPDDL)	Delhi	JdVVNL	Rajasthan
3.08	NDPL (TPDDL)	Delhi	UPPCL	UP
16.86	NDPL (TPDDL)	Delhi	RDPPC	Rajasthan
0.76	NDPL (TPDDL)	Delhi	STL	Maharashtra
0.37	NDPL (TPDDL)	Delhi	SCL	Andhra Pradesh
6.74	NDPL (TPDDL)	Delhi	MPPMCL	Madhya Pradesh
10.36	NDPL (TPDDL)	Delhi	STL	Maharashtra
9.48	NDPL (TPDDL)	Delhi	WBSEDCL	West Bengal
192.55	NDPL (TPDDL)	Delhi	MSEDCL	Maharashtra
65.11	NDPL (TPDDL)	Delhi	NPCL	Uttar Pradesh
0.71	NDPL (TPDDL)	DELHI	EEL	MAHARASHTRA
7.96	NDPL (TPDDL)	Delhi	ESIL	Gujarat
125.99	NDPL (TPDDL)	Delhi	UPCL	Uttarakhand
8.26	NDPL (TPDDL)	Delhi	RIL, Dahej	Gujarat

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1263
TO BE ANSWERED ON 12.12.2013

FDI IN POWER SECTOR

1263. DR. RAM CHANDRA DOME:

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

- (a) whether the Government has allowed Foreign Direct Investment (FDI) in the power sector;
- (b) if so, the details thereof;
- (c) the details of power projects financed through FDI in the country for which the Government has assured a counter guarantee; and
- (d) the amount of investment involved in such projects, project-wise?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) & (b) : FDI upto 100% under the automatic route is permitted in generation (Except Atomic Energy), transmission, distribution and trading of electricity. Government of India on 22.08.2013 notified revised position for FDI Cap for Power Exchanges registered under CERC Regulations, 2010 as 49% (26% FDI + 23% FII) through 'Automatic Route'.

(c) & (d) : No project has been financed through FDI in the country for which Government has assured a Counter Guarantee.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1269
TO BE ANSWERED ON 12.12.2013

KATWA THERMAL POWER PROJECT

1269. SHRI ABHIJIT MUKHERJEE:

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

- (a) the present status of the Katwa Thermal Power Project of National Thermal Power Corporation Limited (NTPC) in West Bengal;
- (b) the details of the funds allocated for the said Project and the utilisation thereof;
- (c) whether the land acquired for setting up of this project is adequate or there are proposals of NTPC to acquire some more land; and
- (d) if so, the details thereof?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER
(SHRI JYOTIRADITYA M. SCINDIA)

(a) to (d) : The Katwa Project being implemented by NTPC has a proposed capacity of 1320 MW. NTPC had applied for coal linkage for the project on 4.3.2011. The total land required is about 700 acres out of which 556 acres of land has been acquired by West Bengal Power Development Corporation Ltd. NTPC has requested the Government of West Bengal for acquisition of balance land for ash pond, railway corridor and make up water pump house at Bhagirathi river end. No capital expenditure has been made so far on construction.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1275
TO BE ANSWERED ON 12.12.2013

RENEWABLE ENERGY PROJECTS

1275. SHRIMATI BOTCHA JHANSHI LAKSHMI:

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

- (a) the details of the initiatives taken by the Government to promote reliable grid integration, forecast, scheduling and dispatch for large scale grid connected renewable energy projects; and
- (b) the details of the strategies for long term transmission planning for renewable energy?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a)& (b) : The scheduling and despatch of all generating projects including those of renewable energy projects are carried out in accordance with the provisions of the relevant regulations of the Central Electricity Regulatory Commission (CERC) such as Indian Electricity Grid Code (IEGC). The transmission system for integration of renewable energy generation projects is planned in accordance with the provisions of the Manual on Transmission Planning Criterion. About 33 GW renewable capacity addition is envisaged in eight (8) renewable rich States in the XII Plan period. In order to facilitate integration of such large scale renewable generation capacity in XII Plan, a comprehensive transmission plan comprising intra-State and inter-State transmission system strengthening has been identified which includes inter-alia, control infrastructure like forecasting of renewable generation, balancing Infrastructure, establishment of Renewable Energy Management Centers (REMC), etc.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1285
TO BE ANSWERED ON 12.12.2013

SETTING UP OF POWER PLANTS

†1285. SHRI YASHBANT N.S. LAGURI:
SHRI LAXMAN TUDU:

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

- (a) whether there are delays in execution/construction of the power plants in the country due to the incompetence and carelessness of higher officials responsible for the same;
- (b) if so, the details of such delays in execution of the power projects, State-wise; and
- (c) the steps taken by the Government to check the incompetence and carelessness of the higher officials involved in the construction of power plants?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) to (c): There are delays in execution/construction of power plants in the country due to various reasons such as inter-alia, delay in receiving various inputs/clearances for the project, delay in supply of equipments/materials, shortage of manpower, contractual disputes, law and order problems etc. In addition, hydro power plants are also delayed due to change in design, natural calamities, geological surprises, difficult terrain, poor accessibility and rehabilitation & resettlement problems.

Government is closely monitoring the under construction projects to avoid delays. Central Electricity Authority (CEA) is performing the duties of monitoring of the power projects in pursuance of 73 (f) of Electricity Act, 2003. In addition, a Power Project Monitoring Panel (PPMP) has been set up by the Ministry of Power to independently follow up and monitor the progress of the hydro/thermal projects and regular reviews are held by Minister of State (I/C) for Power and Secretary (Power).

The list of thermal and hydro projects running behind schedule along with reasons for delay is placed at Annex-I and II respectively.

ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 1285 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013.

Details of Under Construction Thermal Power Projects Lagging behind schedule time of Commissioning along with Reasons

State	Project Name	Impl Agency	Unit No	Cap. (MW)	Org. Comm. Sched.	Reasons for Delay
	CENTRAL SECTOR					
<i>Assam</i>	Bongaigaon TPP	NTPC	U-1	250	Jan-11	Frequent bandhs, Heavy monsoon and slow civil works. Work came to halt due to violence and mass exodus of labour from site during the year 2011-12.
			U-2	250	May-11	
			U-3	250	Sep-11	
<i>Bihar</i>	Barh STPP- I	NTPC	U-1	660	Oct-13	Delay due to dispute of NTPC with Power machine & Technopromexport, Russia. However, the same has since been resolved. Delay in supply of boiler and turbine material by M/s TPE & M/s PM and slow progress of works. Delay in ordering of Bols by M/s TPE. *Orig. Sch.was in 2009-10 & 2010-11. Revised schedule tied up with M/s. TPE & Power Machine, Russia after settlement of disputes.
			U-2	660	Apr-14	
			U-3	660	Oct-14	
<i>Bihar</i>	Barh STPP-II	NTPC	U-5	660	Oct-13	Delay in supply of material by BHEL for boiler and TG packages.
<i>Bihar</i>	Muzaffarpur TPP Exp (Kanti TPP St-II)	NTPC	U-3	195	Oct-12	Delay in award of main plant civil works. Delay in completion of civil & structural works.
			U-4	195	Jan-13	
<i>Bihar</i>	Nabi Nagar TPP	NTPC	U-1	250	May-13	Delay in acquisition of Land.Poor mobilization by main plant civil agency ERA resulting in delay in handing over civil fronts to erection agencies. Supply of equipment by BHEL.
			U-2	250	Sep-13	
			U-3	250	Jan-14	
			U-4	250	May-14	
<i>Jharkhand</i>	BokaroTPS "A"Exp.	DVC	U-1	500	Dec-11	Delay in shifting of switchyard (charged). Delay in removal of existing underground facilities. Delay in supply of material by BHEL.
<i>MP</i>	Vindhyachal TPP-IV	NTPC	U-13	500	Aug-15	Delay in BoPs order & slow progress of Boiler structure erection.
<i>TN</i>	Neyveli TPS-II Exp.	NLC	U-2	250	Jun-09	Delay in completion of refractory work.
<i>TN</i>	Tuticorin JV TPP	NLC	U-1	500	Mar-12	Slow progress of civil works and change in design of foundations of main plant equipments. Shortage of man power.
			U-2	500	Aug-12	
<i>TN</i>	Vallur TPP Ph-II	NTECL	U-3	500	Dec-12	Poor mobilization by civil agency resulting in delay in handing over of civil fronts.Delay in supply of boiler material.
<i>Tripura</i>	Monarchak CCPP	NEEPCO	GT+ST	101	Jul-13	Delay in award of civil work contract and supply of material by BHEL. Heavy monsoon. Delay in laying of gas pipe line.
<i>Tripura</i>	Tripura Gas	ONGC	Module-2	363.3	Mar-12	Delay in award of logistic by BHEL. Slow progress of civil work. Heavy monsoon. Delay in supply of material. Damage of air booster compressors due to impurities in gas.

<i>WB</i>	Raghunathpur TPP, Ph-I	DVC	U-1	600	Feb-11	Delay in Land acquisition for water & Rail corridor. Delay in erection of main plant equipments. Delay in completion of boiler insulation work. Slow progress of CHP . Law & Order Problem.
			U-2	600	May-11	
Total Central Sector				9194.3		
	STATE SECTOR					
<i>AP</i>	Damodaram Sanjeevaiah TPP	APPDL	U-1	800	Jul-12	Due to delay in start of civil works and delay in supplies. Construction of external CHP, RWPH and CT.
			U-2	800	Jan-13	
<i>AP</i>	Kakatiya TPP Extn	APGENCO	U-1	600	Jul-12	Due to delay in start of civil works.
<i>AP</i>	Rayalseema Stage-III	APGENCO	U-6	600	Jul-14	Delay in start of civil works
<i>Assam</i>	Namrup CCGT	APGCL	GT	70	Sep-11	Due to delay in start of civil works & poor performance of civil agency. Poor soil conditions and heavy monsoon. Delay in supply of material by BHEL & shortage of skilled manpower.
			ST	30	Jan-12	
<i>Chhattisgarh</i>	Marwa TPP	CSPGCL	U-1	500	May-12	Initial delay is due to Change of award of Chimney. Delay in readiness of BOPs (CHP, AHP & 400 KV Switchyard etc.) and Law & Order Problems, preferage of material etc.
			U-2	500	Jul-12	
<i>Delhi</i>	Pragati CCGT - III	PPCL	ST-2	250	Nov-10	Delay in completion of civil works. Delay in completion of mechanical erection due to frequent strike by workers.
<i>Gujarat</i>	Pipavav CCGT	GSECL	Bloc k-1	351	Sep-10	Delay in civil works and delay in supplies. Work remained stand still due to dispute between project authority & BHEL due to supply of damaged GT compressor Rotor. The same has since been resolved. Delay in rectification of GRP Pipe line & IBH header.
<i>Gujarat</i>	Sikka TPP Extn.	GSECL	U-3	250	Oct-13	Delay in readiness of civil fronts and placement of BOPs Orders. Slow progress in BoPs. Slow progress of erection of boiler and TG.
			U-4	250	Jan-14	
<i>Gujarat</i>	Bhavnagar CFBC TPP	Bhavnagar Energy	U-1	250	Oct-13	Delay in civil works and non - sequential supply by BHEL. Slow progress of BoPs.
			U-2	250	Dec-13	
<i>Maharashtra</i>	Chandrapur TPS	MSPGCL	U-8	500	Jun-12	Delay in placement of BoPs order and delay in main plant equipment supply, non - sequential supply by BHEL. Slow progress in BoPs. Heavy monsoon.
			U-9	500	Sep-12	
<i>Maharashtra</i>	Koradi TPP Exp	MSPGCL	U-8	660	Dec-13	Delay in civil works. Delays in work progress due to heavy rain.
			U-9	660	Jun-14	
			U-10	660	Dec-14	
<i>Maharashtra</i>	Parli TPP Expn.	MSPGCL	U-8	250	Jan-12	Delay in BTG supply. Delay in approval of drawings.Slow erection work. Slow progress in BoPs.
<i>MP</i>	Malwa TPP (Shree Singaji TPP)	MPGENCO	U-2	600	Oct-12	Man power shortage.Delay in boiler pressure part supply/erection. Delay in ESP & readiness of ID & FD Fans.
<i>MP</i>	Satpura TPP Extn	MPPGCL	U-11	250	Apr-12	Readiness of ESP control room. Delay in readiness of Milling system & PA & FD fans.
<i>Rajasthan</i>	Chhabra TPP Extn.	RRVUNL	U-4	250	Jul-11	Delay in readiness of Condenser foundation & floors around TG Deck. Delay in readiness of inter connecting platform between U-3 & 4.

Rajasthan	Kalisindh TPS	RRVUNL	U-1	600	Aug-11	Delay in supply of Generator Transformer and delay in erection of bunkers & mills. Delay in readiness of transmission line.
			U-2	600	Mar-12	Delay in structural erection of bunkers and coal mills.
Rajasthan	Ramgarh CCPP Extn.-III	RRVUNL	ST	50	Oct-11	Delay in casting of ST Deck and Readiness of S T Hall along with ST deck floors. Delay in start of TG erection.
UP	Anpara-D	UPRVUNL	U- 6	500	Mar-11	Delay in civil works. Slow progress of Chimney & Cooling Tower etc. Delay in supply of of boiler material
			U-7	500	Jun-11	
WB	Durgapur TPS Extn.	DPL	U-8	250	Dec-13	Delay in supplies of BTG. Delay in repair of Gen transformer. Slow progress of AHP.
WB	Sagardighi TPS Extn	WBPDC	U-3	500	Jul-14	Delay in supply of Boiler & TG material.
			U-4	500	Oct-14	
Total State Sector				13331		
PRIVATE SECTOR						
AP	Bhavanpadu TPP	M/s East Coast Energy Ltd.	U-1	660	Oct-13	Work remained under suspension due to MOEF order for a long time. Law & order problem.
			U-2	660	Mar-14	
AP	NCC TPP	NCC Power Projects Ltd	U-1	660	Mar-15	Delay in start of civil works. Delay in supply of main plant package.
			U-2	660	Jun-15	
AP	Painampuram TPP	Thermal Power Tech Corporation Ltd	U-1	660	Apr-14	Delay in start and completion of civil fronts.
			U-2	660	Aug-14	
AP	Simhapuri Energy Pvt Ltd Ph-II	Madhucon Projects Ltd.	U-3	150	Dec-11	Delay in commissioning of phase-I of the project and delay in supply of TG, CHP and refractory material.
			U-4	150	Feb-12	
AP	Thamminapatnam TPP-II	Meenaksha Energy Ltd.	U-3	350	May-12	Slow progress of Civil works.Payment problem with bankers. Work remained suspended due to non availability of BTG contractor valid licence.
			U-4	350	Aug-12	
AP	Vizag TPP	Hinduja National Power Corpn Ltd	U-1	520	Jun-13	Slow progress of civil works, Raw water system, CW system, CHP and transmission lines for start up power.
			U-2	520	Sep-13	
Chhattisgarh	Akaltara (Naiyara) TPP	Wardha PCL (KSK)	U-2	600	Aug-12	Shortage of manpower and agitation by Villagers.
			U-3	600	Dec-12	
			U-4	600	Apr-13	
Chhattisgarh	Avantha Bhandar TPS, U-1	Korba West Power Co. Ltd.	U-1	600	Jul-12	Delay in civil works and readiness of Chimney. Delay in readiness of CHP & AHP.
Chhattisgarh	Baradarha TPP (DB Power TPP)	D.B.Power co.Ltd	U-1	600	Mar-13	Late start of civil works. Delay in readiness of CHP, AHP & Mills.
			U-2	600	Jul-13	
Chhattisgarh	Balco TPP	Bharat Aluminium Co. Ltd	U-1	300	Feb-11	Collapse of chimney. Non availability of consent to operate the plant from the State Govt.
			U-2	300	Nov-10	
Chhattisgarh	Bandakhar TPP	M/s Maurti Clean Coal & Power Ltd	U-1	300	Dec-12	Delay in start of civil works.
Chhattisgarh	Binkote TPP	M/s SKS Power Generation (Chhattisgarh) Ltd.	U-1	300	Jan-14	Late start of civil works. Delay in supply of the Boiler Drum.
			U-2	300	Apr-14	Late start of civil works. Delay in supply of the Boiler Drum.
			U-3	300	Jul-14	*Work at site is yet to start.
			U-4	300	Oct-14	

Chhattisgarh	Lanco Amarkantak TPS-II	LAP Pvt. Ltd.	U-3	660	Jan-13	Delay in acquisition of land for water system and BoPs. Financial constraint, supply of BTG material etc.
			U-4	660	Mar-13	
Chhattisgarh	Raikheda TPP	GMR	U-1	685	Sep-13	Delay in start of civil works.
			U-2	685	Jan-14	
Chhattisgarh	Singhitarai TPP	Athena Chhattisgarh Power Ltd.	U-1	600	Jun-14	Delay in land acquisition.
			U-2	600	Sep-14	
Chhattisgarh	Swastic TPP	M/s ACB	U-1	25	Jun-12	Delay in readiness of BoPs. Delay due to commercial dispute with CHP vendors. Delay in refractory work and defect in super heater coils.
Chhattisgarh	Tamnar TPP (O.P.Jindal)	O.P.Jindal	U-1	600	Jan-14	
			U-2	600	Apr-14	
			U-3	600	Sep-14	Delay in boiler erection start.
			U-4	600	Nov-14	Delay in readiness of main plant civil works.
Chhattisgarh	TRN Energy TPP	M/s TRN Energy Pvt. Ltd.	U-1	300	Dec-13	Delay in start of civil works.
			U-2	300	Apr-14	
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	U-1	360	May-12	Due to agitation by villagers. Slow progress of works at site.
			U-2	360	Nov-12	
			U-3	360	Feb-13	
			U-4	360	Jul-13	
Chhattisgarh	Vandana Vidyut TPP	M/s Vandana Vidyut	U-1	135	Jun-13	Agitation by the villagers at project site and readiness of BoPs. Delay in supply of boiler material, CHP material & in start up power. Various pre-commissioning problems.
			U-2	135	Sep-11	
Chhattisgarh	Chakubura TPP	ACB Ltd	U-1	30	Sep-11	Delay in readiness of CT
Chhattisgarh	Raigarh TPP (Visa TPP)	Visa Power	U-1	600	Aug-13	Delay in supply of Boiler Material
Jharkhand	Maitrishi Usha TPP-Ph-I	M/s Corporate Power Ltd	U-1	270	May-12	Law and order problem. Delay in supply of BTG equipment. Delay in readiness of transmission line due to forest clearance. Work is held up due to non release of balance payment to BHEL. Commissioning schedule would be finalized after restart of work.
			U-2	270	Jun-12	
Jharkhand	Maitrishi Usha TPP-Ph-II	Corporate Power Ltd	U-3	270	Feb-13	Law and order problem and delay in supply of BTG material. Work is held up due to non release of balance payment to BHEL.
			U-4	270	Mar-13	
Jharkhand	Tori TPP	Essar Power	U-1	600	Jun-13	Law and order problem. Delay in start of civil work.
Maharashtra	Amravati TPP Ph-I	India Bulls	U-2	270	Dec-11	Non-sequential supply of BTG material. Delay in readiness of Civil Fronts. Commercial issue with BHEL. Delay in insulation application. Delay in readiness of HFO, CHP & AHP. Commercial issues with BHEL. Slow progress of boiler and TG erection.
			U-3	270	Jan-12	
			U-4	270	Feb-12	
			U-5	270	Mar-12	
Maharashtra	Amravati TPP Ph-II	India Bulls	U-1	270	Jul-14	No Work is going on at site.
			U-2	270	Sep-14	
			U-3	270	Nov-14	
			U-4	270	Jan-15	
			U-5	270	Mar-15	

Maharashtra	Dhariwal infrastructure TPP	Dhariwal Infrastructure (P) Ltd	U-2	300	May-12	Delay in commissioning of Unit-1. Heavy monsoon.
Maharashtra	Lanco Vidarbha TPP	Lanco Vidarbha	U-1	660	Jan-14	Delay in supply and erection of pressure parts. Work is held up due to financial problems.
			U-2	660	May-14	
Maharashtra	Nasik TPP Ph-I	India Bulls	U-1	270	Feb-12	Non-sequential supply of BTG material & Civil fronts readiness. Payment issue with BHEL. Ducting insulation, Readiness of Mills, HFO, CHP & AHP.
			U-2	270	Apr-12	
			U-3	270	Jun-12	Delay in acquisition of land of Railway siding . Non-Acceptance of BTG material by Project Authorities
			U-4	270	Aug-12	
			U-5	270	Oct-12	
Maharashtra	Nasik TPP Ph-II	India Bulls	U-1	270	Apr-13	No Work is going on at site.
			U-2	270	Jun-13	
			U-3	270	Aug-13	
			U-4	270	Oct-13	
			U-5	270	Dec-13	
Maharashtra	Tirora TPP Ph-II	Adani Power Ltd	U-2	660	Jul-12	Delay due to Heavy rains, CHP and Power evacuation & ducting.
			U-3	660	Oct-12	Delay due to Heavy rains, CHP and Power evacuation
MP	Anuppur TPP Ph-I	MB Power MP	U-1	600	Apr-13	Delay due to late start of civil works and slow progress of civil works. Delay in supply of Boiler material.
			U-2	600	Aug-13	
MP	Gorgi TPP (DB Power)	DB Power	U-1	660	Jun-13	No work at site.
MP	Mahan TPP	Essar Power MP Ltd	U-2	600	Sep-11	Delay in development of Coal Block
MP	Nigri TPP	Jai Prakash Power Ventures Ltd.	U-1	660	Jun-13	Delay in start of civil works. Delay in readiness of ACW system. Delay in BTG supplies.
			U-2	660	Dec-13	
MP	Seoni TPP Ph-I	Jhabua Power Ltd	U-1	600	Mar-13	Delay in readiness of civil Fronts. Delay in AHP & chimney readiness.
Orissa	Derang TPP	JITPL	U-1	600	Mar-12	Law and order problem. Delay in land acquisition. Delay in readiness of transmission line for start up power.
			U-2	600	Jun-12	
Orissa	Ind Bharat TPP (Orissa)	Ind. Bharat	U-1	350	Sep-11	Delay due to heavy rains. Delay in readiness of start up power.
			U-2	350	Dec-11	
Orissa	Kamalanga TPP	GMR	U-3	350	Feb-12	Visa problem for foreign personnel. Delay in land acquisition. Heavy monsoon. Exodus of labour due to labour unrest in near by industry. Delay in readiness of evacuation system.
Orissa	KVK Nilanchal TPP	KVK Nilanchal	U-1	350	Dec-11	Initially delayed due to chimney clearance and law & order problem. Work is held up due to stay by Hon'ble High Court of Orissa.
			U-2	350	Jan-12	
			U-3	350	Mar-12	
Orissa	Lanco Babandh TPP	Lanco Babandh Power Ltd	U-1	660	Apr-13	Delay in land acquisition. Slow progress of boiler erection. Work is held up due to financial problems.
			U-2	660	Aug-13	
Orissa	Malibrahmani TPP (Monnet Ispat)	MPCL	U-1	525	Dec-12	Delay in land acquisition and delay in supply of TG hall structural material.
			U-2	525	Feb-13	
Punjab	Talwandi Sabo TPP	M/s Sterlite	U-1	660	Oct-12	Delay in readiness of Civil fronts.
			U-2	660	Jan-13	
			U-3	660	May-13	
Punjab	Goindwal Sahib TPP	M/s GVK Power	U-1	270	Apr-13	Delay in acquisition of land for railway siding and delay in completion of CHP & AHP.
			U-2	270	Oct-13	

<i>Rajasthan</i>	Kawai TPP	Adani Power Ltd	U-2	660	Mar-13	Delay in commissioning of Unit-1.
<i>TN</i>	Melamaruthur TPP	Coastal Energen	U-1	600	Feb-12	Delay in supply of main plant Equipment. Delay due to manpower shortage & readiness of switchyard & DM Plant. Change in policy for supply of sand and use of ground water. Disbursement of additional loan by bankers.
			U-2	600	Mar-12	
<i>TN</i>	Tuticorin TPP (Ind- Barath TPP)	IBPIL	U-1	660	May-12	Delay due to slow progress of civil works.
<i>UP</i>	Lalitapur TPP	Lalitapur Power Gen. Co	U-1	660	Oct-14	Delay due to heavy rains.
			U-2	660	Feb-15	
			U-3	660	Jun-15	
<i>UP</i>	Prayagraj TPP	Prayagraj Power Generation Co. Ltd.	U-1	660	Feb-14	Delay in BTG supply and slow progress of erection.
			U-2	660	Jul-14	
			U-3	660	Dec-14	
	Total Private Sector			49755		
	Grand Total			72280.3		

ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 1285 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013.

**DETAILS OF HYDRO ELECTRIC PROJECTS UNDER EXECUTION IN THE COUNTRY LAGGING BEHIND
SCHEDULE OF TIME OF COMMISSIONING ALONG WITH REASONS
(EXCLUDING RENEWABLE AND PROJECTS UPTO 25 MW CAPACITY UNDER MNRE)**

Sr. No	Name of Project Capacity Agency/State Date of Approval	Commissioning Schedule		Reasons for time and cost over run
		Original mm/yy	Latest mm/yy	
1	2	3	4	5
CENTRAL SECTOR				
1	Kol Dam (4x200 MW) NTPC H.P. 28.10.2002	Apr-09 2008-10	2014-15	<ul style="list-style-type: none"> ➤ Slow progress of clay/earth filling of dam, Grouting of dam galleries, Concreting of Spillway. ➤ Contractual issues. ➤ Delay in procurement of steel. ➤ Right bank failure due to poor geology, seepage at foundation of clay core.
2	Tapovan Vishnughad (4x130 MW) NTPC Uttarakhand 11/2006	Mar-13 2012-13	2016-17	<ul style="list-style-type: none"> ➤ Delay in procurement/deployment of Tunnel Boring Machine by Civil Contractor. ➤ Slow progress in Power house due to poor rock strata. ➤ Heavy water ingress due to bad geology in HRT and rock fall on TBM. ➤ Flash flood in June, 2013.
3	Pare (2x55MW) NEEPCO Ar.Pd 04.12.2008	Aug-13 2013-14	2015-16	<ul style="list-style-type: none"> ➤ Law & Order problem. ➤ Lack of resources with the contractor. ➤ Poor geology. ➤ Flash flood in Sept, 2012. ➤ Poor approach roads.
4	Tuirial (2x30 MW) NEEPCO Mizoram 16.07.1998	Jul-06 2006-07	2016-17	<ul style="list-style-type: none"> ➤ Works suspended earlier due to local unrest since June 2004. ➤ The work restarted on 14.01.2011. ➤ Poor approach roads. ➤ Inadequate mobilization by contractor. ➤ Slope failure in Power House.
5	Kameng (4x150 MW) NEEPCO Ar. Pd 02.12.2004	Dec 09 2009-10	2016-17	<ul style="list-style-type: none"> ➤ Change in dam parameters. ➤ Slow progress in dam & HRT due to Bad geology, heavy seepage, inadequate machinery. ➤ Flash flood in Oct. 2008 and Sept. 2012. ➤ Ingress of water in HRT. ➤ Poor approach roads. ➤ Contractual issues.
6	Tehri PSS (4x250 MW) THDC Uttarakhand 18.07.2006 (Original) Nov, 2011 (RCE)	Jul- 10 2010-11 (As per original approval) Feb-16 (2015-16) (As per RCE)	2017-18	<ul style="list-style-type: none"> ➤ Specialised nature of E&M works. ➤ Approval of RCE as L-1 price bid was more than cost estimates. RCE approved in Oct.-10. ➤ Litigation, Single EPC contract awarded to M/S Alstom Hydro France and M/S HCC on 23.06.11. ➤ Poor geology. ➤ Local agitation at Asena Quarry & muck disposal area. ➤ Poor preparedness of contractor. ➤ Revision of Lay out of machine hall due to poor geology.
7	Rampur (6x68.67 MW) SJVNL HP 25.01.2007	Jan-12 2011-12	2013-15	<ul style="list-style-type: none"> ➤ Poor geology in HRT. ➤ Slope failure in Power House area. ➤ Intermittent disturbance by local people.
8	Parbati-III (4x130 MW) NHPC HP 09.11.2005	Nov-10 2010-11	2013-15	<ul style="list-style-type: none"> ➤ Poor geology in HRT. ➤ Delay in completion of E&M works. ➤ Flash flood on 16th August, 2011. ➤ Delay in supply of material and erection of units by BHEL. Stoppage of work by locals. ➤ Forest clearance for transmission line received in June, 2012. ➤ Termination of XLPE Cable.

9	Teesta Low Dam- IV (4x40 MW) NHPC WB 30.09.2005	Sep-09 2009-10	2015-16	<ul style="list-style-type: none"> ➤ Delay in forest clearance. ➤ Flash flood in July, 2007, May, 2009 & July, 2010. ➤ Gorkha Jan Mukti agitations/bandhs. ➤ Cash crunch of Civil contractor (M/s HCC), the civil works are completely at halt since 20.03.2013.
10	Parbati - II (4x200 MW) NHPC H.P. 11.09.2002	Sep-09 2009-10	2016-17	<ul style="list-style-type: none"> ➤ Hon'ble High Court of Himachal Pradesh ban stone crusher operation. ➤ Delay in revised forest clearance. ➤ TBM suffered extensive damage due to heavy ingress of water and slush in TBM face in Nov, 2006. ➤ Slide in Power House area in Feb, 07. ➤ Flash flood in August, 2011. ➤ Jiwa Nallah works affected due to cavity treatment. ➤ Contractual issues in Lot PB-2, Contract with M/s HJV terminated in March, 12. ➤ Re-tendering for balance works of Lot PB-2 (TBM portion of HRT re-awarded on 13.08.2013).
11	Subansiri Lower (8x250 MW) NHPC Ar. Pd./ Assam 09.09.2003	Sep-10 2010-11	2016-18	<ul style="list-style-type: none"> ➤ Disruption of works by locals in Ar. Pradesh side. ➤ Slope failure in Power House in Jan, 2008. ➤ Damage to bridge on Ranganadi river. ➤ Change in design of surge shafts to surge tunnels. ➤ Stoppage of works due to agitation launched by Anti Dam activists against construction of Project. Work stopped since 16.12.2011. ➤ Issue of D/s impact studies.
12	Uri-II (4x60 MW) NHPC J&K 01.09.2005 <u>Units Commissioned</u> Unit # 1: 25.09.2013 Unit # 3: 27.09.2013 Unit# 2: 16.11.2013	Nov-09 2009-10	2013-14	<ul style="list-style-type: none"> ➤ Lack of resources and cash flow crunch of HCC. ➤ Breaching/ overtopping of Cofferdam in May, 10 & April, 11 due to heavy rain. ➤ Disturbance in Valley since June, 2010. ➤ Problem faced during erection of Surge Shaft Gate. ➤ Delay in Diversion Tunnel Plugging works. ➤ Works stopped by locals from Mar, 2012 to June, 2012 demanding employment in NHPC. ➤ Slow progress of works by M/s HCC due to cash crunch. ➤ Flash flood in September, 2012. ➤ Hindrance in filling of u/s water conductor, by locals, demanding employment in NHPC. ➤ After refilling of the water conductor system, high flood occurred in River Jhelum which started erosion of left bank of dam and some cracks were also observed along left bank hill slope downstream of dam.
13	Kishanganga (3x110 MW) NHPC J&K 20.07.2007 14.01.2009 (RCE)	July-14 (2014-15) (As per original approval) Jan-16 (2015-16) (As per revised approval)	2016-17	<ul style="list-style-type: none"> ➤ In view of price bid offered by the lowest bidder for turnkey execution of the project being very high, the revised CCEA approval accorded on 14.01.2009. ➤ Heavy Rainfall in March, 2011. ➤ Cavity in HRT - TBM portion. ➤ Poor geology in Access tunnel. ➤ Work stopped from 29.08.2012 to 17.10.2012 by Locals demanding employment in NHPC. ➤ Dam works affected due to arbitration proceedings at International Court of Arbitration.
STATE SECTOR				
JAMMU & KASHMIR				
14	Baglihar-II (3x150 MW) JKPDC 29.12.2010	2014-15	2016-17	<ul style="list-style-type: none"> ➤ Delay in finalization of cost of contract. E&M works.
HIMACHAL PRADESH				
15	Kashang-I (1x65MW) HPPCL 31.07.08 (TEC by HPSEB) 31.07.2008	2013-14	2014-15	<ul style="list-style-type: none"> ➤ Slow progress of civil and E&M works. ➤ Flash flood in June, 2013.

16	Kashang-II & III (1x65 + 1x65 MW) HPPCL 10.09.2009	2013-14	2015-16	<ul style="list-style-type: none"> ➤ Local issues. Works could not be started due to continuous agitation by Lipa villagers. Matter is being persuaded at higher level. ➤ Flash flood in June, 2013.
17	Uhi-III (3x33.33MW) BVPCL (HPSEB) 19.09.2002	Mar-07 2006-07	2015-16	<ul style="list-style-type: none"> ➤ Delay in award of works. ➤ Contract for construction of HRT rescinded twice i.e. during May, 2008 & July, 2010 due to slow progress and non-performance by the contractor. ➤ Poor geology in HRT.
18	Sawra Kuddu (3x37MW) HPPCL, 10.11.2004	Dec-10 2010-11	2015-16	<ul style="list-style-type: none"> ➤ Delay in MOEF clearance. ➤ Delay in award of Civil & E&M works. ➤ Poor geology in HRT. ➤ Slow progress of HRT Lining.
19	Sainj (100 MW) HPPCL 29.12.2010	2014-15	2015-16	<ul style="list-style-type: none"> ➤ Slow progress of HRT and Barrage works
ANDHRA PRADESH				
20	Lower Jurala (6x40 MW) APGENCO 2007	2011-13	2013-15	<ul style="list-style-type: none"> ➤ Delay in award of E&M works. ➤ Slow progress in civil works. Land acquisition problem. ➤ Unprecedented flood in 2009, 2010, 2012 & 2013. ➤ Frequent bandh by TJAC for Telangana State. ➤ Agitation by local villagers. ➤ Right flank Dam concreting was by the villagers from 23.04.2011 to 30.11.2012. ➤ Slow progress of HM works.
21	Pulichintala (4x30MW) APGENCO 25.04.2007	2009-11	2015-17	<ul style="list-style-type: none"> ➤ E&M works. ➤ Unprecedented floods in Oct.2009 & Sept.2011. ➤ Contractual issues. ➤ Slow progress of Power House works. ➤ Civil works were suspended from 16.09.2011 to 29.06.2012 and Nov-12 to May-13 due to contractual issues. ➤ E&M erection work contract terminated in August, 2013 due to higher rates demand by contractor.
22	Nagarjuna Sagar Tail Pool Dam (2x25 MW) APGENCO 17.01.2005	Nov-08 2008-09	2014-15	<ul style="list-style-type: none"> ➤ Slow progress of dam due to frequent flooding during 2009, 2011& 2013. ➤ Delay in award of HM works. ➤ Contractual issues in Dam works.
KERALA				
23	Pallivasal 2x30MW KSEB 31.01.2007	Mar-11 2010-11	2015-16	<ul style="list-style-type: none"> ➤ Slow progress of civil works. ➤ Delay in land acquisition. ➤ Change in alignment of Adit to HRT. ➤ Poor geology strata in HRT. ➤ Heavy Monsoon.
24	Thottiyar (1x30+1x10)MW KSEB 05.06.2008	2012-13	2015-16	<ul style="list-style-type: none"> ➤ Land acquisition issue. ➤ The works of weir and approach channel stopped from 2010 to 2012 by local people. ➤ The work stopped by Court from 12.12.2012 to April-2013.
MEGHALAYA				
25	New Umtru (2x20MW) MeECL 12/06	2011-12	2014-15	<ul style="list-style-type: none"> ➤ Delay in award of works. ➤ Slow progress of civil works.
PRIVATE SECTOR				
HIMACHAL PRADESH				
26	Tidong-I 2x50MW NSL Tidong 09.02.2006	2013-14	2016-17	<ul style="list-style-type: none"> ➤ Delay in NOC by Projects affected Panchayats, suspension of works by Govt. for one year.
27	Tangnu Romai-I (2x22 MW) TRPGPL 28.10.2010	2014-15	2015-16	<ul style="list-style-type: none"> ➤ Slow progress of civil works. ➤ Poor geology. ➤ Difficult area. ➤ Weather conditions & accessibility.
28	Sorang (2x50 MW), HSPPL 23.09.2004	2012-13	2013-14	<ul style="list-style-type: none"> ➤ Poor geology. ➤ Difficult area. ➤ Weather conditions & accessibility.

UTTARAKHAND				
29	Shrinagar (4x82.5 MW) Alaknanda Hydro Power Co. Ltd. 14.6.2000 (TEC)	2005-06	2014-15	<ul style="list-style-type: none"> ➤ Financial Closure. ➤ Slow progress of dam works. ➤ MoEF issued notice to stop works since 30.05.2011. ➤ Local issues. ➤ Flash flood in June, 2013.
30	Singoli Bhatwari (3x33MW) L&T 11.07.2008	2014-15	2015-16	<ul style="list-style-type: none"> ➤ Poor geology in HRT. ➤ Agitation by local people. ➤ Flash flood in June,2013.
MADHYA PRADESH				
31	Maheshwar (10x40 MW) SMHPCL 30.12.1996	2001-02	2014-16	<ul style="list-style-type: none"> ➤ R&R issues ➤ Cash flow problem with developer
SIKKIM				
32	Teesta Stage III (6X200 MW) Teesta Urja Limited 12.05.2006 (TEC)	Oct-11 2011-12	2014-16	<ul style="list-style-type: none"> ➤ Delay in forest clearance. ➤ Works suffered due to earthquake in Sept.2011.
33	Teesta Stage VI (4X125 MW) Lanco Energy Private Limited 27.12. 2006 (TEC)	2012-13	2015-16	<ul style="list-style-type: none"> ➤ Poor geology. ➤ Land acquisition.
34	Rangit-IV HE Project (3X40 MW) JPCL 09.12.2005	2012-13	2016-17	<ul style="list-style-type: none"> ➤ Slow progress of HRT & Surge Shaft works due to poor geology. ➤ Works hampered due to earthquake in September, 2011.
35	Jorenthang Loop (2x28MW) DAN-Energy Pvt. Ltd.	Dec 12 2012-13	2014-15	<ul style="list-style-type: none"> ➤ Poor geology. ➤ Forest clearance for Transmission line.
36	Bhasmey (2x25.5 MW) Gati Infrastructure 12/2008	2012-13	2015-16	<ul style="list-style-type: none"> ➤ Forest clearance.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1294
TO BE ANSWERED ON 12.12.2013

NTPC AND NHPC POWER PLANTS

†1294. SHRI TUFANI SAROJ:

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

- (a) the details of the power generation units of National Thermal Power Corporation Limited (NTPC) and National Hydro Power Corporation Limited (NHPC) along with their installed power generation capacity, unit and State-wise;
- (b) whether these units have been able to generate power as per the installed capacity during the last few years; and
- (c) if so, the details of the power generated from these units during the year 2012-13, separately?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) to (c) : The details of the power generation units of National Thermal Power Corporation Limited (NTPC) and National Hydro Power Corporation Limited (NHPC) along with their installed power generation capacity, unit and State-wise is given at **Annex.**

The generation of power from a power plant vis-à-vis its installed capacity is dependent on a number of factors, inter-alia, planned shutdown, adequate quantity & quality of fuel, etc. Details of power generated from the units of NTPC and NHPC during the year 2012-13 are given in column 5 of the table at Annex.

ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 1294 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013.

Unit and State-wise Installed Capacity and Generation of NTPC and NHPC stations for the year 2012-13

Station	Unit No.	Capacity (MW)	State	Generation (MU)
(1)	(2)	(3)	(4)	(5)
NTPC Owned Projects				
BADARPUR TPS	1	95	Delhi	530.84
	2	95		572.33
	3	95		504.55
	4	210		1514.3
	5	210		1433.62
FARIDABAD CCPP	1	137.76	Haryana	787.87
	2	137.76		769.66
	3	156.07		845.32
ANTA CCPP	1	88.71	Rajasthan	410.59
	2	88.71		550.12
	3	88.71		411.14
	4	153.2		804.6
SINGRAULI STPS	1	200	Uttar Pradesh	1650.35
	2	200		1775.82
	3	200		1774.2
	4	200		1752.13
	5	200		1822.23
	6	500		3724.75
	7	500		3694.52
RIHAND STPS	1	500	Uttar Pradesh	3269.99
	2	500		3680.13
	3	500		4238.93
	4	500		4272.96
	5	500		955.71
	6	500		0
UNCHAHAHAR TPS	1	210	Uttar Pradesh	1751.45
	2	210		1658.11
	3	210		1636.43
	4	210		1767.65
	5	210		1714.04
DADRI (NCTPP)	1	210	Uttar Pradesh	1560.29
	2	210		1527.52
	3	210		1639.36
	4	210		1636.23
	5	490		3298.81
	6	490		3431.52
TANDA TPS	1	110	Uttar Pradesh	951.21
	2	110		748.36
	3	110		837.3
	4	110		685.95
AURAIYA CCPP	1	111.19	Uttar Pradesh	328.23
	2	111.19		473.95
	3	111.19		388.77
	4	111.19		526.38
	5	109.3		539.95
	6	109.3		517.54

DADRI CCPP	1	130.19		768.83
	2	130.19		734.73
	3	130.19		841.53
	4	130.19		687.41
	5	154.51		641.12
	6	154.51		743.96
KAWAS CCPP	1	106	Gujarat	284.39
	2	106		407.91
	3	106		392.73
	4	106		561.92
	5	116.1		586.83
	6	116.1		667.21
GANDHAR CCPP	1	144.3		545.72
	2	144.3		886.36
	3	144.3		839.94
	4	224.49		1206.58
KORBA STPS	1	200	Chhattisgarh	1749.82
	2	200		1707.76
	3	200		1582.3
	4	500		3978.2
	5	500		3677.18
	6	500		3745.77
	7	500		4081.96
SIPAT STPS	1	660		4191.31
	2	660		4468.26
	3	660		2922.59
	4	500		3458.92
	5	500		3449.34
VINDHYACHAL STPS	1	210	Madhya Pradesh	1746.66
	2	210		1650.06
	3	210		1582.93
	4	210		1671.28
	5	210		1691.14
	6	210		1658.97
	7	500		4053.27
	8	500		3801.81
	9	500		3920.89
	10	500		4228.05
	11	500		128.48
	12	500		0.36
MAUDA TPS	1	500	Maharashtra	12.33
	2	500		1.02
RAMAGUNDEM STPS	1	200	Andhra Pradesh	1682.56
	2	200		1711.64
	3	200		1464.96
	4	500		4297.36
	5	500		3799.96
	6	500		4025.99
	7	500		3802.83
SIMHADRI STPS	1	500		3589.47
	2	500		4117.03
	3	500		3323.15
	4	500		1661.51
R. GANDHI CCPP (Liq.)	1	115.2	Kerala	454.74
	2	115.2		531.79
	3	129.18		562.12

KAHALGAON TPS	1	210	Bihar	1478.58
	2	210		1413.68
	3	210		1412.32
	4	210		1499.17
	5	500		2884.73
	6	500		3302.56
	7	500		2716.41
TALCHER (OLD) TPS	1	62.5	Orissa	523.47
	2	62.5		525.64
	3	62.5		505.87
	4	62.5		526.05
	5	110		906.28
	6	110		892.01
TALCHER STPS	1	500		3712.89
	2	500		3406.87
	3	500		3827.3
	4	500		3665.81
	5	500		3493.19
	6	500		3340.17
FARAKKA STPS	1	200	West Bengal	1216.45
	2	200		1305.77
	3	200		1145.98
	4	500		3013.62
	5	500		2345.98
	6	500		2605.35
NHPC owned				
BAIRA SIUL HPS	1	66	Himachal Pradesh	242.23
	2	66		251.75
	3	66		227.36
CHAMERA- I HPS	1	180		833.45
	2	180		711.1
	3	180		897.82
CHAMERA- II HPS	1	100	Himachal Pradesh	447.6
	2	100		507.99
	3	100		477.7
CHAMERA- III HPS	1	77		199.04
	2	77		254.46
	3	77		262.79
SALAL HPS	1	115	Jammu & Kashmir	460.36
	2	115		595.16
	3	115		687.57
	4	115		444.15
	5	115		436.37
	6	115		653
URI-I HPS	1	120		830.29
	2	120		824.7
	3	120		630.36
	4	120		681.59
DULHASTI HPS	1	130		660.49
	2	130		694.19
	3	130		688.75

SEWA-II HPS	1	40		76.78	
	2	40		205.09	
	3	40		202.4	
CHUTAK HPS	1	11		0.96	
	2	11		7.94	
	3	11		4.85	
	4	11		0.81	
TANAKPUR HPS	1	31.4		Uttarakhand	175.73
	2	31.4			175.73
	3	31.4			129.37
DHAULI GANGA HPS	1	70	276.06		
	2	70	268.17		
	3	70	324.06		
	4	70	268.36		
TEESTA V HPS	1	170	Sikkim		815.3
	2	170			809.76
	3	170			643.34
RANGIT HPS	1	20		103.84	
	2	20		115.67	
	3	20		108.59	
LOKTAK HPS.	1	35		Manipur	196.02
	2	35			179.88
	3	35			204.51

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1299
TO BE ANSWERED ON 12.12.2013

VILLAGE ELECTRIFICATION

†1299. SHRI HARISH CHAUDHARY:
SHRI BADRI RAM JAKHAR:
SHRI ANURAG SINGH THAKUR:

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

- (a) the criteria for electrification of villages under the Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) at present and whether the same has been found to be inadequate as it does not meet the requirements of the people;
- (b) if so, the details thereof along with the details of proposals pending, if any, with the Union Government to amend the said criteria;
- (c) whether the Government proposes to declare a village as electrified only when electricity is provided in a specific manner in such a village;
- (d) if so, the details thereof; and
- (e) the details of the villages that still remains to be electrified in the country particularly in the Barmer and Jaisalmer areas of Rajasthan along with the targets set for village electrification in the country during the current year, State-wise?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) to (d) : As per Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) guidelines, with effect from 2004-05, a village is considered electrified if:

- i) Basic infrastructure such as distribution transformer and distribution lines are provided in the inhabited locality as well as the dalit basti/hamlet where it exists.
- ii) Electricity is provided to public places like schools, panchayat offices, health centres, dispensaries, community centres etc.; and

iii) The number of households electrified should be at least 10% of the total number of households in the village.

(e) : Under RGGVY, 648 projects (235 projects during 10th Plan, 341 projects during 11th Plan and 72 projects during Phase-II of 11th Plan) were sanctioned covering electrification of 1,12,225 un/de-electrified villages (UEV) and intensive electrification of 3,83,372 partially electrified villages (PEV) in the country. Cumulatively, as on 15.11.2013, the electrification works in 1,07,752 UE villages, 3,03,406 PE villages have been completed under the scheme. The coverage and achievement of UE villages and PE villages, State-wise is at **Annex-I**.

In addition to 648 projects, 39 projects (5-Madhya Pradesh, 6-Uttar Pradesh and 28-Rajasthan) have been sanctioned under RGGVY during 12th Five Year Plan, covering electrification of 93 UE villages and 28576 PE villages.

The RGGVY projects of district Jaisalmer and Barmer were sanctioned on 22.02.2006 and 27.05.2009 respectively. As on 15.11.2013, the coverage and achievement of UE villages and PE villages in respect of Jaisalmer and Barmer districts is as under:

Districts	Un-electrified villages		Partially electrified villages	
	Coverage	Achievement	Coverage	Achievement
Jaisalmer (10 th Plan)	98	98 (100%)	348	322 (93%)
Barmer (11 th Plan)	647	647 (100%)	1200	1200 (100%)

In addition to above, a project for district Jaisalmer has also been sanctioned under RGGVY in 12th Plan on 24.09.2013, covering electrification of 543 PE villages with project cost of Rs. 171.93 crore.

State-wise targets and achievement of un/de-electrified village under RGGVY during the current year i.e 2013-14, is at **Annex-II**.

ANNEX REFERRED TO IN REPLY TO PART (e) OF UNSTARRED QUESTION NO. 1299 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013.

State wise coverage & achievement of un-electrified villages and partially electrified villages under RGGVY

As on 15.11.2013

Sl. No.	State	Un-electrified Villages		Partially Electrified Villages	
		Coverage	Achievement	Coverage	Achievement
1	Andhra Pradesh	0	0	26628	26628
2	Arunachal Pradesh	2081	1855	1526	1134
3	Assam	8241	8069	12907	12502
4	Bihar	24295	22917	18639	5373
5	Chhattisgarh	1736	1143	16099	13102
6	Gujarat	0	0	16350	16280
7	Haryana	0	0	6593	4676
8	Himachal Pradesh	95	83	12734	10534
9	Jammu & Kashmir	234	192	3247	3018
10	Jharkhand	18747	18117	6099	5758
11	Karnataka	62	62	25349	24740
12	Kerala	0	0	1272	473
13	Madhya Pradesh	886	627	49327	26593
14	Maharashtra	0	0	41921	36763
15	Manipur	882	616	1378	585
16	Meghalaya	1866	1705	3239	2484
17	Mizoram	137	109	570	346
18	Nagaland	105	91	1169	1078
19	Odisha	14728	14397	29329	25742
20	Punjab	0	0	6580	6030
21	Rajasthan	4237	4155	34449	33422
22	Sikkim	25	25	413	383
23	Tamil Nadu	0	0	10402	9673
24	Tripura	148	143	658	623
25	Uttar Pradesh	28006	27750	22973	2982
26	Uttarakhand	1512	1511	9263	9221
27	West Bengal	4202	4185	24258	23263
	Total	112225	107752	383372	303406

ANNEX REFERRED TO IN REPLY TO PART (e) OF UNSTARRED QUESTION NO. 1299 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013.

State-wise targets and achievement of un/de-electrified villages under RGGVY during the current financial year 2013-14			
Sl. No.	State	Target	Achievement (as on 15.11.2013)
1	Arunachal Pradesh	406	155
2	Assam	219	50
3	Bihar	826	187
4	Chhattisgarh	525	72
5	Himachal Pradesh	12	0
6	Jammu & Kashmir	61	16
7	Jharkhand	362	31
8	Madhya Pradesh	45	31
9	Manipur	264	0
10	Meghalaya	212	51
11	Mizoram	43	15
12	Nagaland	17	3
13	Odisha	204	52
14	Rajasthan	99	18
15	Tripura	1	0
16	West Bengal	4	0
	Total	3300	681

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1325
TO BE ANSWERED ON 12.12.2013

COST OF POWER GENERATION

1325. DR. ANUP KUMAR SAHA:
SHRI FRANCISCO SARDINHA:

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

- (a) the details of the average cost of generation per unit of power in various States as on date and the per unit realisation therefrom;
- (b) whether the difference between the average cost of power generation and per unit average tariff collection has increased;
- (c) if so, the details thereof; and
- (d) the steps taken/being taken by the Government to minimise this difference?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) to (c): As per Power Finance Corporation report on "Performance of State Power Utilities for the years 2009-10 to 2011-12" based on the account details provided by the Utilities, the Average Cost of Supply (ACS) per unit of power in various States, the per unit Average Revenue Realised (ARR) and the difference is given at **Annex**. As regards, the change in difference between the two, the same has increased. The details for the year 2009-10 to 2011-12 is given below :

	Rs. / kWh		
	2009-10	2010-11	2011-12
ACS	3.55	3.97	4.39
ARR (subsidy booked basis)	3.16	3.33	3.68
ARR (subsidy received basis)	2.95	3.30	3.63
Gap (subsidy booked basis)	0.40	0.64	0.70
Gap (subsidy received basis)	0.61	0.67	0.76

(d) : The steps taken by the Government to minimize this difference, inter-alia, are:

- (i) Promoting use of more efficient super-critical technology in thermal power generation with a view to reduce the cost of fuel required per unit of generation.
- (ii) Tariff Policy notified on 06.01.2006 mandates procurement of power by distribution licensees competitively except in cases of expansion of existing projects of where there is a State controlled/owned company as an identified developer. For Public Sector projects also, the tariff of all new generation projects is to be decided on the basis of competitive bidding after 5th January, 2011.
- (iii) Improved operational norms in the tariff regulations issued by the Central Electricity Regulatory Commission (CERC) for the period 2009-14.
- (iv) Promotion of higher unit size / plant capacity to reduce capital cost on account of economy of scale.
- (v) Revised mega power project policy issued by Ministry of Power in December, 2009 under which payment of custom duty is exempted for power generating equipments of certain specified capacity of projects and excise duty is also exempted for certain categories of projects.
- (vi) Competitive tariffs have been discovered through tariff based competitive bidding for procurement of power for which the bidding documents have been provided by the Ministry.

ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 1325 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013.

2009-10								
Region	State	Utility	ACS	Avg Revenue (Subsidy Booked basis)	Avg Revenue (Subsidy Recd basis)	Gap (subsidy booked basis)	Gap (subsidy recd basis)	
Eastern	Bihar	BSEB	4.14	2.75	2.75	1.39	1.39	
	Jharkhand	JSEB	3.40	2.61	2.61	0.79	0.79	
	Orissa	CESCO	2.21	1.97	1.97	0.23	0.23	
		NESCO	2.10	2.04	2.04	0.06	0.06	
		SESCO	1.70	1.52	1.52	0.17	0.17	
		WESCO	2.19	2.15	2.15	0.04	0.04	
		Sikkim	Sikkim PD	1.40	1.24	1.24	0.16	0.16
		West Bengal	WBSEDCL	3.23	3.27	3.27	(0.04)	(0.04)
Eastern Total			3.05	2.71	2.71	0.34	0.34	
North Eastern	Arunachal Pradesh	Arunachal PD	5.95	1.61	1.61	4.35	4.35	
	Assam	APDCL	4.25	3.56	3.56	0.69	0.69	
	Manipur	Manipur PD	4.44	1.74	1.74	2.69	2.69	
	Meghalaya	MeSEB	3.66	3.28	3.28	0.38	0.38	
		MeECL						
	Mizoram	Mizoram PD	5.75	1.86	1.86	3.90	3.90	
	Nagaland	Nagaland PD	3.89	1.78	1.78	2.12	2.12	
Tripura	TSECL	2.84	2.86	2.73	(0.02)	0.10		
North Eastern Total			4.13	3.04	3.02	1.09	1.10	
Northern	Delhi	BSES Rajdhani	4.33	4.49	4.49	(0.16)	(0.16)	
		BSES Yamuna	4.08	4.20	4.20	(0.12)	(0.12)	
		NDPL	4.54	4.92	4.92	(0.38)	(0.38)	
	Haryana	DHBVNL	3.52	3.15	3.13	0.37	0.40	
		UHBVNL	4.62	4.07	4.07	0.56	0.56	
	Himachal Pradesh	HPSEB	3.85	3.66	3.66	0.18	0.18	
		HPSEB Ltd.						
	Jammu & Kashmir	J&K PDD	2.93	0.90	0.90	2.03	2.03	
	Punjab	PSEB	3.32	3.00	3.00	0.32	0.32	
		PSPCL						
		Rajasthan	AVVNL	5.24	5.24	2.30	(0.00)	2.94
	Uttar Pradesh	JDVVNL	4.57	4.57	2.25	(0.00)	2.32	
		JVVNL	4.93	4.93	2.68	(0.00)	2.25	
		DVVN	3.76	2.46	2.46	1.30	1.30	
		KESCO	3.46	2.89	2.89	0.57	0.57	
		MVVN	3.81	2.74	2.74	1.08	1.08	
		Pash VVN	3.49	2.82	2.82	0.67	0.67	
		Poorv VVN	3.44	2.53	2.53	0.92	0.92	
	Uttarakhand	Ut PCL	3.09	2.45	2.45	0.64	0.64	
Northern Total			3.91	3.46	2.97	0.46	0.94	
Southern	Andhra Pradesh	APCPDCL	3.08	3.08	2.72	(0.00)	0.36	
		APEPDCL	3.52	3.54	3.14	(0.02)	0.38	
		APNPDCL	3.32	3.33	2.56	(0.01)	0.77	
		APSPDCL	3.63	3.63	2.92	(0.00)	0.71	
	Karnataka	BESCOM	3.25	3.26	3.30	(0.01)	(0.05)	
		CHESCOM	3.20	3.08	2.55	0.12	0.65	
		GESCOM	2.93	2.93	2.93	(0.00)	(0.00)	
		HESCOM	3.33	3.09	3.09	0.23	0.23	
	MESCOM	3.63	3.67	3.60	(0.03)	0.04		
	Kerala	KSEB	3.55	3.69	3.69	(0.14)	(0.14)	
	Puducherry	Puducherry PD	2.27	2.10	2.10	0.18	0.18	
Tamil Nadu	TNEB	4.14	2.67	2.67	1.46	1.46		
	TANGEDCO							
Southern Total			3.58	3.09	2.90	0.50	0.69	
Western	Chhattisgarh	CSPDCL	2.08	1.93	1.93	0.15	0.15	
	Goa	Goa PD	2.44	2.48	2.48	(0.05)	(0.05)	
	Gujarat	DGVCL	3.98	4.01	4.01	(0.04)	(0.04)	
		MGVCL	3.79	3.82	3.82	(0.03)	(0.03)	
		PGVCL	2.70	2.71	2.71	(0.01)	(0.01)	
		UGVCL	2.90	2.91	2.91	(0.00)	(0.00)	
	Madhya Pradesh	MP Madhya Kshetra VVCL	3.10	2.47	2.47	0.62	0.62	
		MP Paschim Kshetra VVCL	3.86	2.81	2.81	1.05	1.05	
		MP Purv Kshetra VVCL	3.90	2.82	2.82	1.09	1.09	
	Maharashtra	MSEDCL	3.51	3.41	3.41	0.09	0.09	
Western Total			3.26	3.04	3.04	0.21	0.21	
Grand Total			3.55	3.16	2.95	0.40	0.61	

2010-11								
Region	State	Utility	ACS	Avg Revenue (Subsidy Booked basis)	Avg Revenue (Subsidy Recd basis)	Gap (subsidy booked basis)	Gap (subsidy recd basis)	
Eastern	Bihar	BSEB	4.44	3.24	3.24	1.19	1.19	
	Jharkhand	JSEB	3.35	2.64	2.64	0.72	0.72	
	Orissa	CESCO	2.67	2.54	2.54	0.12	0.12	
		NESCO	2.70	2.56	2.56	0.14	0.14	
		SESCO	2.09	2.01	2.01	0.07	0.07	
		WESCO	2.65	2.60	2.60	0.06	0.06	
	Sikkim	Sikkim PD	1.69	1.06	1.06	0.63	0.63	
	West Bengal	WBSEDCL	3.35	3.39	3.39	(0.04)	(0.04)	
Eastern Total			3.29	2.99	2.99	0.30	0.30	
North Eastern	Arunachal Pradesh	Arunachal PD	4.44	1.54	1.54	2.91	2.91	
	Assam	APDCL	5.36	4.34	4.34	1.02	1.02	
	Manipur	Manipur PD	4.93	1.74	1.74	3.19	3.19	
	Meghalaya	MeSEB						
		MeECL	3.08	2.58	2.58	0.50	0.50	
	Mizoram	Mizoram PD	5.28	1.66	1.66	3.62	3.62	
	Nagaland	Nagaland PD	4.66	1.69	1.69	2.98	2.98	
	Tripura	TSECL	3.62	2.62	2.58	1.01	1.04	
North Eastern Total			4.61	3.20	3.19	1.41	1.41	
Northern	Delhi	BSES Rajdhani	4.65	5.00	5.00	(0.34)	(0.34)	
		BSES Yamuna	4.79	5.01	5.01	(0.22)	(0.22)	
		NDPL	4.32	4.69	4.69	(0.36)	(0.36)	
	Haryana	DHBVNL	3.94	3.49	3.40	0.45	0.54	
		UHBVNL	4.30	4.22	4.22	0.08	0.08	
		HPSEB	4.23	3.46	3.46	0.77	0.77	
	Himachal Pradesh	HPSEB Ltd.	3.49	3.09	3.09	0.40	0.40	
		Jammu & Kashmir	J&K PDD	3.14	1.11	1.11	2.03	2.03
	Punjab	PSEB						
		PSPCL	3.46	3.07	3.07	0.38	0.38	
		Rajasthan	AVVNL	7.84	2.77	2.77	5.08	5.08
		JDVVNL	7.03	2.33	2.33	4.71	4.71	
		JVVNL	6.69	2.68	2.68	4.01	4.01	
		Uttar Pradesh	DVVN	3.84	2.94	2.94	0.90	0.90
		KESCO	3.84	3.22	3.22	0.62	0.62	
		MVVN	3.45	3.13	3.13	0.32	0.32	
		Pash VVN	3.33	3.18	3.18	0.16	0.16	
		Poorv VVN	4.00	2.82	2.82	1.18	1.18	
Uttarakhand		Ut PCL	3.15	2.91	2.91	0.24	0.24	
Northern Total				4.42	3.22	3.22	1.20	1.20
Southern	Andhra Pradesh	APCPDCL	3.40	3.41	3.19	(0.00)	0.22	
		APEPDCL	3.84	3.85	3.35	(0.01)	0.49	
		APNPDC	3.80	3.81	3.46	(0.01)	0.34	
		APSPDCL	4.10	4.10	3.84	(0.00)	0.25	
	Karnataka	BESCOM	3.60	3.60	3.60	(0.00)	(0.00)	
		CHESCOM	3.47	3.51	3.51	(0.04)	(0.04)	
		GESCOM	3.70	3.74	3.74	(0.04)	(0.04)	
		HESCOM	3.79	3.71	3.71	0.08	0.08	
	Kerala	MESCOM	4.00	4.00	4.00	(0.01)	(0.01)	
		KSEB	3.74	3.88	3.88	(0.13)	(0.13)	
		Puducherry	Puducherry PD	2.82	2.35	2.35	0.47	0.47
		Tamil Nadu	TNEB	4.42	2.98	2.98	1.44	1.44
	TANGEDCO	5.39	3.33	3.33	2.05	2.05		
Southern Total			4.04	3.49	3.39	0.55	0.66	
Western	Chattisgarh	CSPDCL	2.56	2.27	2.27	0.29	0.29	
	Goa	Goa PD	2.71	2.50	2.50	0.22	0.22	
	Gujarat	DGVCL	4.14	4.21	4.21	(0.07)	(0.07)	
		MGVCL	3.80	3.83	3.83	(0.04)	(0.04)	
		PGVCL	3.00	3.01	3.01	(0.01)	(0.01)	
		UGVCL	3.26	3.27	3.27	(0.01)	(0.01)	
	Madhya Pradesh	MP Madhya Kshetra VVCL	3.41	2.91	2.91	0.49	0.49	
		MP Paschim Kshetra VVCL	3.60	3.21	3.21	0.40	0.40	
		MP Purv Kshetra VVCL	3.82	2.96	2.96	0.86	0.86	
	Maharashtra	MSEDCL	3.92	3.82	3.82	0.10	0.10	
Western Total			3.58	3.41	3.41	0.17	0.17	
Grand Total			3.97	3.33	3.30	0.64	0.67	

2011-12								
Region	State	Utility	ACS	Avg Revenue (Subsidy Booked basis)	Avg Revenue (Subsidy Recd basis)	Gap (subsidy booked basis)	Gap (subsidy recd basis)	
Eastern	Bihar	BSEB	5.89	4.41	4.41	1.48	1.48	
	Jharkhand	JSEB	6.40	3.19	3.19	3.21	3.21	
	Orissa	CESCO	3.34	2.98	2.98	0.36	0.36	
		NESCO	3.53	3.35	3.35	0.18	0.18	
		SESCO	2.45	2.37	2.37	0.08	0.08	
		WESCO	3.36	3.28	3.28	0.08	0.08	
	Sikkim	Sikkim PD	1.15	2.04	2.04	(0.89)	(0.89)	
	West Bengal	WBSEDCL	4.47	4.50	4.50	(0.03)	(0.03)	
Eastern Total			4.60	3.90	3.90	0.70	0.70	
North Eastern	Arunachal Pradesh	Arunachal PD	5.52	1.51	1.51	4.01	4.01	
	Assam	APDCL	4.64	3.95	3.70	0.68	0.93	
	Manipur	Manipur PD	6.88	1.97	1.97	4.91	4.91	
	Meghalaya	MeSEB						
		MeECL	4.30	3.14	3.14	1.16	1.16	
	Mizoram	Mizoram PD	5.64	2.42	2.42	3.22	3.22	
	Nagaland	Nagaland PD	5.52	2.10	2.10	3.42	3.42	
	Tripura	TSECL	4.39	3.13	3.13	1.26	1.26	
North Eastern Total			4.82	3.33	3.19	1.50	1.63	
Northern	Delhi	BSES Rajdhani	5.69	5.78	5.78	(0.09)	(0.09)	
		BSES Yamuna	5.79	5.84	5.84	(0.04)	(0.04)	
		NDPL	5.02	5.46	5.46	(0.44)	(0.44)	
	Haryana	DHBVNL	4.41	3.59	3.57	0.82	0.84	
		UHBVNL	4.93	3.84	3.84	1.08	1.08	
	Himachal Pradesh	HPSEB						
		HPSEB Ltd.	4.53	4.01	4.01	0.52	0.52	
	Jammu & Kashmir	J&K PDD	4.03	1.29	1.29	2.74	2.74	
	Punjab	PSEB						
		PSPCL	3.97	3.86	3.86	0.11	0.11	
	Rajasthan	AVVNL	8.35	3.11	3.11	5.24	5.24	
		JDVVNL	6.66	2.73	2.73	3.93	3.93	
		JVVNL	6.04	3.12	3.12	2.92	2.92	
	Uttar Pradesh	DVVN	3.67	2.73	2.73	0.93	0.93	
		KESCO	4.55	3.31	3.31	1.24	1.24	
		MVVN	3.80	3.09	3.09	0.72	0.72	
		Pash VVN	3.46	3.28	3.28	0.17	0.17	
		Poorv VVN	3.88	3.15	3.15	0.74	0.74	
		Uttarakhand	Ut PCL	3.47	3.09	3.09	0.39	0.39
		Northern Total			4.75	3.56	3.56	1.19
Southern	Andhra Pradesh	APCPDCL	4.07	4.07	3.67	(0.00)	0.40	
		APEPDCL	4.24	4.25	3.49	(0.01)	0.75	
		APNPDCL	4.06	4.06	3.41	(0.00)	0.65	
		APSPDCL	4.28	4.28	3.89	(0.00)	0.38	
	Karnataka	BESCOM	3.75	3.81	3.81	(0.06)	(0.06)	
		CHESCOM	3.88	3.67	3.42	0.20	0.46	
		GESCOM	3.67	3.65	3.65	0.02	0.02	
		HESCOM	3.85	3.89	3.89	(0.04)	(0.04)	
		MESCOM	4.18	4.20	4.20	(0.02)	(0.02)	
	Kerala	KSEB	3.96	4.08	4.08	(0.12)	(0.12)	
	Puducherry	Puducherry PD	3.18	2.66	2.66	0.51	0.51	
	Tamil Nadu	TNEB						
TANGEDCO		5.40	3.34	3.34	2.06	2.06		
Southern Total			4.42	3.80	3.61	0.62	0.81	
Western	Chattisgarh	CSPDCL	3.10	2.44	2.44	0.66	0.66	
	Goa PD		3.11	2.39	2.39	0.72	0.72	
	Gujarat	DGVCL	4.60	4.67	4.67	(0.07)	(0.07)	
		MGVCL	4.08	4.13	4.13	(0.05)	(0.05)	
		PGVCL	3.27	3.27	3.27	(0.01)	(0.01)	
		UGVCL	3.52	3.52	3.52	(0.01)	(0.01)	
	Madhya Pradesh	MP Madhya Kshetra VVCL	3.84	3.05	3.05	0.79	0.79	
		MP Paschim Kshetra VVCL	3.45	3.10	3.10	0.35	0.35	
		MP Purv Kshetra VVCL	4.36	3.37	3.37	0.99	0.99	
Maharashtra	MSEDCL	4.14	4.14	4.14	0.00	0.00		
Western Total			3.85	3.67	3.67	0.19	0.19	
Grand Total			4.39	3.68	3.63	0.70	0.76	

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1336
TO BE ANSWERED ON 12.12.2013

NHPC POWER PROJECTS

†1336. SHRI NARANBHAI KACHHADIA:
SHRI BALKRISHNA K. SHUKLA:

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

- (a) whether various power projects of the National Hydro Power Corporation Limited (NHPC) are pending for want of clearances;
- (b) if so, the details thereof, State-wise;
- (c) whether timely completion of these projects would help in overcoming the shortage of power in the country as well as provide boost to the sluggish economy; and
- (d) if so, the details thereof and the steps taken/being taken by the Government thereon?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER
(SHRI JYOTIRADITYA M. SCINDIA)

(a) to (d) : Ten hydro-electric projects (HEPs) of NHPC Limited with an aggregate installed capacity of 8531 MW, which have been concurred by Central Electricity Authority (CEA), await various other clearances such as Environment & Forest clearance. The State-wise details are given at **Annex**. These projects would contribute upto 32.1 Billion Units of electricity per annum which would help to meet the power demand in the country. The Ministry of Power has highlighted need for quick clearances with respective Ministries particularly the Ministry of Environment & Forests.

ANNEX

ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 1336 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013.

Details of Hydro-electric Schemes of NHPC Ltd. concurred by CEA along with various statutory clearances.

Sl No.	Scheme/ Sector	Agency	IC (MW)	Design Energy (GWh)	Remarks
Jammu & Kashmir					
1	Pakal Dul Joint Venture	CVPP *	1000	3330.18	Environment Clearance (EC) obtained on 29.2.2008. Forest Clearance (FC) obtained on 16.5.2005 & 6.12.2010. Investment approval is yet to be accorded.
Uttarakhand					
2	Kotlibhel St-IA Central	NHPC	195	1025.50	EC obtained on 9.5.2007. FC St-I obtained on 13.10.2011. FC St - II is awaited.
3	Kotlibhel St-IB Central	NHPC	320	1278.30	MOEF declined FC. EC given earlier on 14.08.2007 is withdrawn on 22.11.2010.
4	Kotlibhel St-II Central	NHPC	530	2031.00	EC obtained on 23.08.2007. FC declined by MOEF.
Sikkim					
5	Teesta St-IV Central	NHPC	520	2373.00	EC is awaited. FC-I obtained on 26.02.2013.
Manipur					
6	Tipaimukh Central	NHPC	1500	3805.70	EC obtained on 24.10.08.**
7	Loktak D/S Joint Venture	LDHCL ***	66	342.00	EC obtained on 16.01.2013. FC St-I obtained on 03.03.11. FC St-II is awaited.
Arunachal Pradesh					
8	Dibang Central	NHPC	3000	11330.00	EC & FC are awaited.
9	Tawang St-I Central	NHPC	600	2963.00	EC obtained on 10.6.11. FC is awaited.
10	Tawang St-II Central	NHPC	800	3622.00	EC obtained on 10.6.11. FC is awaited.
	Total		8531	32100.61	

* : CVPP is Joint Venture Company of NHPC, JKSPDC and PTC.

** : FC is awaited. Project is proposed to be undertaken through JVC (NHPC-69%, SJVNL - 26%, Govt of Manipur-5%).

*** : LDHCL is Joint Venture Company of NHPC and Govt. of Manipur.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1340
TO BE ANSWERED ON 12.12.2013

EXPORT OF POWER TO BANGLADESH

1340. SHRI MANICKA TAGORE:

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

- (a) whether the Government proposes to export power to Bangladesh to meet its demand;
- (b) if so, the details thereof including terms and conditions thereon;
- (c) the names of countries and quantum of power supplied/being supplied to them by our country, country-wise;
- (d) whether the country is having surplus power for exports; and
- (e) if not, the reasons for exporting power when the country itself is facing acute shortage of power?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) & (b) : Yes, Madam. The export of power is taking place through the electrical grid interconnection called the Bharat-Bangladesh Vidyut Sanchalan Kendra which was inaugurated on 05.10.2013. Government of India is supplying power to Bangladesh under the terms of the Memorandum of Understanding signed in January, 2010 between the two countries.

(c) : The quantum of power supplied to Nepal and Bangladesh is around 150 MW and 475 MW respectively.

(d) & (e) : India is supplying the above quantum for mutual benefit and cooperation in power sector between the countries.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1360
TO BE ANSWERED ON 12.12.2013

DEBT RESTRUCTURING OF SEBs

1360. SHRI AHIR VIKRAMBHAI ARJANBHAI MAADAM:

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

- (a) whether the Government has recently approved the debt restructuring of various State Electricity Boards (SEBs);
- (b) if so, the details thereof and the reasons therefor;
- (c) whether the private companies which are involved in power distribution are also covered under the same; and
- (d) if so, the details thereof and if not, the reasons therefor?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) & (b) : Yes, Madam. A scheme has been formulated by the Government for Financial Restructuring of the State Distributing Companies (DISCOMS) at the national level for restructuring of the short term liabilities of power distribution companies of the country. The Scheme is available to all participating State Owned Discoms with accumulated losses and facing difficulty in financing operational losses. The details of the scheme are as given in Annex.

(c) & (d) : No, Madam. Does not arise.

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1360 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2013.

Details of Financial Restructuring of State Distribution Companies (DISCOMS) :

The Scheme for Financial Restructuring of State Owned Discoms was formulated and approved by the Government keeping in view of the declining operational performance and financial health of State Discoms and to enable the turnaround of the State Discoms and ensure their long term viability, which have accumulated huge losses and unsustainable debt. The scheme contains measures to be taken by the State Discoms and State Government for achieving financial turnaround by restructuring their debt with support through a Transitional Finance Mechanism by Central Government.

- The State Government will take over 50% of the outstanding short term liabilities (STL) of the DISCOMS as on March 31, 2012. This will be first converted into bonds to be issued by Discoms to participating lenders, duly backed by State Government guarantee. The State Government will then take over this liabilities from Discoms in the next 2-5 years by way of issuing special securities in accordance with their FRBM space. The State Government will provide support in payment of interest and repayment of principal till the date of takeover by issuing special securities.
- The Balance 50% Short term Liabilities will be rescheduled by the lenders at the best possible terms with moratorium on principal repayment.
- The scheme contains two tier monitoring mechanism by committees at Centre and State level to monitor the progress of the turnaround plan.
- Central Government would provide incentive by way of grant equal to the value of the additional energy saved by way of accelerated AT&C loss reduction beyond the loss trajectory specified under RAPDRP and capital reimbursement support of 25% of principal repayment by the State Government on the liability taken over by the State Government under the scheme.
- The scheme contains immediate/ continuing and other measures required to be taken in a time bound manner by the Discoms and State Governments to ensure long term financial & commercial viability of State owned Discoms. These measures include Financial Restructuring, Tariff Setting & Revenue Realization, Subsidy, Metering, Audit & Accounts and Monitoring.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1375
TO BE ANSWERED ON 12.12.2013

BILHAUR POWER PROJECT

†1375. SHRI ASHOK KUMAR RAWAT:

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

- (a) whether the construction work of Bilhaur Power Project of National Thermal Power Corporation Limited (NTPC) has been completed;
- (b) if so, the details thereof and if not, the reasons therefor; and
- (c) the time by which this project is likely to be commissioned?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER

(SHRI JYOTIRADITYA M. SCINDIA)

(a) : No, Madam.

(b) & (c) : The Feasibility Report for the Bilhaur Project has been approved by NTPC and fuel tie up has been achieved. The construction work can start only after Investment approval for the Project by the competent authority, which can be taken up after all statutory approvals/clearances and when land and water for the project are available.
