

intrastate generators. Such an action on the part of the State Government would negate operationalising open access which is one of the key features of the Electricity Act, 2003.

(c) and (d) They Central Commission has decided to file the Special Leave Petition (SLP) before the Hon'ble Supreme Court of India challenging the order of the High Court of Karnataka, as informed by the Central Electricity Regulatory Commission.

Electricity trading

†3346. SHRI RAJ MOHINDER SINGH MAJITHA:
SHRI SHIVANAND TIWARI:

Will the Minister of POWER be pleased to state:

(a) whether it is a fact that the business of sale and purchase of electricity takes place through power exchanges in the country;

(b) if so, the quantum of electricity purchased and sold during 2008-09 and 2009-10 till December;

(c) the average sale price of electricity along with minimum and maximum sale price; and

(d) the difference between this average sale price and average electricity generation cost in the country?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI BHARATSINH SOLANKI): (a) Power exchange provides one of the various avenues for sale and purchase of electricity.

(b) The total Volume of electricity transacted through Power Exchanges in day ahead market was 2.77 BU and 4.83 BU in year 2008-09 and 2009-10 till December respectively. In year 2008-09, the volume transacted by Indian Energy Exchange (IEX) and Power Exchange India Ltd. (PXIL) was 2.62 BU and 0.15 BU respectively and in year 2009-10 (till December, 2009), the volume transacted by IEX and PXIL was 4.23 BU and 0.60 BU respectively.

(c) A comparative Statement of volume and price of electricity transacted in day ahead market through Power Exchanges in year 2008-09 and 2009-10 (till December, 2009) is given in Statement-I (See below).

(d) The weighted average price of electricity transacted in day ahead market through Power Exchanges is Rs. 7.49/kWh and Rs. 5.41/kWh in year 2008-09 and 2009-10 (till December, 2009) respectively.

The tariff determined by CERC for various stations is given in Statement-II and III (See below). Which is applicable to long term power purchase agreements as per which the average cost of generation for hydro projects for the year 2008-09 is Rs. 2.20/kWh and for Thermal generating stations of NTPC, NLC and NEEPCO as in January, 2010 is Rs. 3.154/kWh.

†Original notice of the question was received in Hindi.

Statement-I

Volume and Price of Electricity Transacted (Day Ahead Market) through Power Exchanges

Year	IEX		PXIL		Total	IEX		PXIL				
	Volume (Billion)	Price	Volume (Billion Units)	Price		Minimum Price (Rs./kwh)	Maximum Price (Rs./kwh)	Weighted Average (Rs./kwh)	Minimum Price (Rs./kwh)	Maximum Price (Rs./kwh)	Weighted Average (Rs./kwh)	Weighted Average Price (Rs./kwh)
2008-09	2.62		0.15		2.77	0.69	13.10	7.48	2.45	13.10	7.60	7.49
2009-10 (till December, 2009)	4.23		0.60		4.83	0.13	17.00	5.44	0.60	15.00	5.20	5.41
								(Rs./kwh)			(Rs./kwh)	(Rs./kwh)

Statement-II

Tariff of Hydro Generating Stations

Sl. No.	Station	Install capacity (MW)	Saleable Design Energy MU	Annual fixed charges for 2005-06 (Rs. crore)	Annual fixed charges for 2008-09 (Rs. crore)	Tariff for 05-06 (Rs./Kwh)	Tariff for 08-09 Tarrif for
1.	Baira Siul	180	681	48.70	52.84	0.72	0.78
2.	Salal	690	2685	170.59	176.74	0.64	0.66
3.	Tanakpur	94.2	394	47.42	46.82	1.20	1.19
4.	Chamera-I	540	1447	184.90	199.52	1.28	1.38
5.	Uri	480	2250	393.32	274.26	1.75	1.22
6.	Loktak	105	391	49.96	50.03	1.28	1.28
7.	Rangit	60	295	49.96	48.6	1.69	1.65
8.	Chamera-II	300	1304	286.34	347.37	2.20	2.66
9.	Dhauliganga	280	987	74.04	176.38	0.75	1.79
10.	Dulhasti*	390	1658	—	844.37	0.00	5.09
11.	Teesta V	510	2241	—	330.98		1.48
12.	Kopili	200	1030	55.45	—	0.54	0.00
13.	Khandong-I	50	240	18.70	—	0.78	0.00
14.	Khandong-II	25	77	13.81	—	1.79	0.00
15.	Ranganadi*	405	1311	250.36	203.4	1.91	1.55
16.	Nathpa Jhakri*	1500	6020	1429.58	1312.43	2.37	2.18
17.	Indira Sagar	1000	1958	248.88	477.84	1.64	2.44
18.	Omkareshwar*	520	834	—	263.27	0.00	3.16
19.	Tehri*	1000	2411	—	1108.25	0.00	3.50
TOTAL:			28214	3322.01	5913.1		

2005-06 2008-09

Annual fixed charge (crs)

3322.01 5913.1

Salable energy (MUs)

20633 26867

Cost of Average Power Generation
(Rs/Kwh) (Hydro)

1.61 2.20

*—Figures of these stations is provisional

— Dulhasti, Omkareshwar and Tehri hydro stations have been commissioned after 2005- 06.

Statement-III

Cost of Generation (Tariff) of Thermal Generating Stations of NTPC, NLC and NEEPCO as in January, 2006 and January, 2010 in Paise/kWh Ex-Bus

Sl. No.	Name of the Generating Station	Installed capacity as on 31.3.2006	Fixed charges	2005-06		Average cost of Generation as in January, 2006	Installed capacity as on 31.3.2009	Fixed charges	2008-09	
				Energy charges as in January, 2006	paaise/kWh				Energy charges as in January, 2010	paaise/kWh
1	2	3	4	5	6	7	8	9		
	Years									
	Units	MW	paaise/kWh	paaise/kWh	MW	paaise/kWh	paaise/kWh	paaise/kWh		

Coal based Thermal Generating Stations of NTPC

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A. Pit head Generating Stations										
1.	Rihand STPS St-I	1000.00	51	90	132	1000.00	54	117		
2.	Rihand STPS St-II	1000.00	0	0		1000.00	81	120		
3.	Singrauli STPS	2000.00	29	86		2000.00	27	118		
4.	Vindhyachal STPS St-I	1260.00	35	92		1260.00	37	129		
5.	Vindhyachal STPS St-II	1000.00	69	89		1000.00	62	124		
6.	Vindhyachal STPS St-III	1000.00	0	0		1000.00	94	124		
7.	Korba STPS	2100.00	32	56		2100.00	31	82		

8.	Ramagundam STPS St-I and II	2100.00	37	97	2100.00	35	160
9.	Ramagundam STPS St-III	500.00	78	95	500.00	81	147
10.	Talcher TPS	460.00	63	71	460.00	64	92
11.	Talcher STPS St-I	1000.00	62	77	1000.00	61	112
12.	Talcher STPS St-II	2000.00	88	76	2000.00	67	112
13.	Sipat-II	1000.00			1000.00	108	95
SUB-TOTAL :		13420.00			16420.00		

B. Non-Pit head Generating Stations

14.	FGUTPP TPS St-I	420.00	51	115	420.00	53	179
15.	FGUTPP St-II	420.00	66	114	420.00	66	176
16.	FGUTPP St-III	210.00	0	0	210.00	111	176
17.	NCTP Dadi	840.00	60	168	840.00	60	234
18.	Farrakka STPS	1600.00	52	123	1600.00	50	231
19.	Tanda TPS	440.00	61	157	440.00	64	241
20.	Badarpur TPS	705.00	50	214	705.00	49	265
21.	Kahalgaon STPS St-I	840.00	63	119	840.00	65	182
22.	Kahalgaon STPS St-III		0	0	1000.00	80	188
23.	Simhadri	1000.00	71	100	1000.00	72	163
SUB-TOTAL :		6265.00			7475.00		

TOTAL COAL :	19685.00	152	23895.00	203
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	1	2	3	4	5	6	7	8	9
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Lignite based Thermal Generating Stations of NLC

1.	TPS-I	600.00	43	135	177	600.00	46	152	
2.	TPS-II Stage-I	630.00	30	130		630.00	33	138	
3.	TPS-II Stage-II	840.00	34	130		840.00	35	138	
4.	TPS-I (Expansion)	420.00	106	122		420.00	103	130	
TOTAL LIGNITE :		2490.00				2490.00			

Gas/Liquid Fuel Based Stations of NTPC

A. Using Natural Gas as Fuel

1.	Dadri CCGT	829.78	34	111	169	829.78	28	123	
2.	Faridabad	431.00	64	107		431.00	62	97	
3.	Anta CCGT	419.33	31	104		419.33	27	186	
4.	Auraiya GPS	663.36	25	112		663.36	26	125	
5.	Gandhar GPS	657.39	87	141		657.39	82	128	
6.	Kawas GPS	656.20	85	109		656.20	55	109	
TOTAL :		3657.06				3657.06			

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B. Using LNG as Fuel

1.	Dadri CCGT	829.78			Energy charge	829.78	28	374	
2.	Anta CCGT	419.33			based LNG	419.33	27	273	
3.	Gandhar GPS	657.39			fuel not	657.39	82	318	
TOTAL :									

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4. Auraiya GPS	663.36		available	663.36	26	365
5. Kawas GPS	656.20			656.20	55	334
6. Faridabad	431.00			431.00	62	307
Total	3657.06			3657.06		

C. Using Liquid Fuel (Naphtha/HSD) as Fuel

1. Dadri CCGT	829.78	34	672	672	829.78	28	719
2. Faridabad	431.00	64	626		431.00	62	770
3. Anta CCGT	419.33	27	653		419.33	27	794
4. Auraiya GPS	663.36	25	625		663.36	26	935
5. Kayankulam CCGT	359.58	84	405		359.58	72	738
6. Kawas GPS	656.20	85	651		656.20	55	0
TOTAL :	3359.25				2703.05		

Gas/Liquid Fuel Based Stations of NEEPCO

1. Agartala GPS	84.00	92	89	176	84.00	90	94
2. Assam GPS	291.00	125	49		291.00	118	77
TOTAL :	375.00				375.00		193

Note : 1. Fixed Charge and Energy Charges are as per Tariff allowed by CERC during the Tariff period 2004-09.

2. Energy Charges are based on sales data received from the generating companies which includes Fuel price adjustment amount over and above the base rate of energy charge approved by CERC.
3. Rihand STPS Stage-II, Vinhyachal STPS Stage-III, FGUTPP Stage-III and Kahalgaon STPS Stage-III have been commissioned after 2005-06