

Odisha Power Sector and Tariff for FY 2012-13

1. Consumers as on Sept. 2011

CONSUMERS (As on Sept. 2011)	CESU	NESCO	WESCO	SOUTHCO	TOTAL
EHT	22	30	24	12	88
HT	1181	379	633	185	2378
LT	1362839	764769	696815	799475	3623898
Total	1364042	765178	697472	799672	3626364

- Per capita consumption of electricity per year (2009-10) – 874.24 Kwh
(All India average 778.71 Kwh.)

2. Installed Capacity in Odisha as on Sept. 2011 (4756 MW)

- Total installed capacity 4756 MW (Hydro 2331 MW + Thermal 2425 MW)
- State Hydro (OHPC) 2085 MW
(Odisha share from Machhkund 57 MW + 2028 MW)
- Small Hydro 57 MW
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- Sub total of State Hydro sector **2142 MW**
- State Thermal Power Stations 880 MW (Ib thermal OPGC 420 MW+ Talcher Thermal NTPC 460 MW)
- IPPs (SEL& Arati) 650MW
- Sub total of State Sector **3672 MW** (Hydro 2142 MW + Thermal 1530MW)
- Central Sector 1084 MW (Thermal 895 MW + Hydro 189 MW)
- Total Capacity **4756 MW** (Hydro 2331 MW + Thermal 2425 MW)

Availability of Power From Existing Stations

INSTALLED CAPACITY & NORMATIVE ENERGY AVAILABILITY OF ODISHA

GENERATING STATIONS	CAPACITY DETAILS (NOS. x MW)	Odisha Share			Ex-bus availability to GRIDCO (MU)	REMARKS	Actual for 2010-11 (Audited)
		%	MW	MU			
STATE STATIONS							
HYDRO (OHPC)							
HIRAKUD	2*49.5+2*32+3*37.5+3*24 (Chipilima)	100.00	348	1,174.0	1,162.3	Design Energy less Auxulary Consumption (AC) @ 1%	905.31
BALIMELA	6*60+2*75	100.00	510	1,183.0	1,171.2		1,261.86
U.KOLAB	4*80	100.00	320	832.0	823.7		553.11
RENGALI	5*50	100.00	250	525.0	519.8		253.12
INDRAVATI	4*150	100.00	600	1,962.0	1,942.4		1,632.50
Sub Total			2,028	5,676	5,619		4,605.90
MACHAKUND	(3*17+3*21.25)=14.75MW	50.00	57	262.5	262.5	Assuming Orissa drawal of 50% energy	268.44
TOTAL HYDRO			2,085	5,939	5,882		4,874.34
SMALL HYDRO							
SAMAL S H P (OPCL)	5 * 4	100.00	20	114	113	Design Energy less Auxulary Consumption (AC) @ 1%	249.73
MEENAKSHEE HEP	2*12.5+3*4	100.00	37	142	140		
TOTAL STATE HYDRO			2,142	6,194	6,135		5,124.07
THERMAL							
IBTPS	2*210	100.00	420	3,127	2,830	Considering PLF of 85% and Aux. Consumption at 9.5%	2,843.40
TTPS	2*110+4*60	100.00	460	3,304	2,957	Considering PLF of 82% and Aux. Consumption at 10.5%	3,374.97
IPPs							
M/s Staerilite Energy	600.00		600	4,205	3,784	Considering PLF of 80% and Aux. Consumption at 10%	845.61
Arati Steels	50.00		50	350	315	Considering PLF of 80% and Aux. Consumption at 10%	

TOTAL STATE THERMAL			1,530	10,987	9,887		7,063.98
STATE TOTAL			3,672	17,181	16,022		12,188.05
CENTRAL STATIONS						Central Transmission Loss (CTL) of 2.3% considered as per ARR Order for FY2011-12	
HYDRO							
CHUKHA	4*84=336 Availability to ER-270	15.19%	41	283.3	273.4	Based on Past trend and parameters taken in the ARR of GRIDCO for FY2011-12	278.49
TALA	6 * 170=1020	4.25%	43	151.3	143.2		151.56
TEESTA	3 * 170= 510	20.59%	105	529.6	511.3	Design Energy of 2573MU less Auxulary Consumption (AC) @ 1.2% & CTL @ 2.3%	532.00
TOTAL CENTRAL HYDRO			189	964.2	927.8		962.05
THERMAL							
FSTPS	3*200+2*500=1600	13.63%	218	1,623.2	1,475.8	PLF of 85% , Aux. Cons. at 6.94% & CTL @ 2.3%	1,550.92
TSTPS - I	2*500=1000	31.80%	318	2,367.8	2,163.0	PLF of 85% , Aux. Cons. at 6.5% & CTL @ 2.3%	2,207.97
TSTPS - II	4*500=2000	10.00%	200	1,489.2	1,360.4	PLF of 85% , Aux. Cons. at 6.5% & CTL @ 2.3%	1,474.44
KHSTPS - I	4*210=840	15.24%	128	953.1	847.4	PLF of 85% , Aux. Cons. at 9.0% & CTL @ 2.3%	766.29
KHSTPS - II	3*500=1500	2.05%	31	230.8	210.9	PLF of 85% , Aux. Cons. at 6.5% & CTL @ 2.3%	173.10
TOTAL CENTRAL THERMAL			895	6,664.2	6,057.4		6,192.72
SUB TOTAL CENTRAL SECTOR			1,084	7,628.4	6,985.3	% of State Hydro to Total availability	7,134.77
TOTAL (CENTRAL+STATE)			4,756	24,809.1	23,007.1	30.7%	19,322.08
CGP & Co-Generation							3,013.67
UI Over Drawal							554.32
Power Banking & Trading							-21.83
TOTAL							22,868.98

3. State Demand and Energy Procurement

(Energy in MU)

	2008-09	2009-10	2010-11
Energy Requirement	20,519	21,136	22,506
Energy Supplied	20,214	20,955	22,449
Deficit(-)/Surplus (+)	(-)1.5%	(-)0.9%	(-)0.3%

(Demand in MW)

	2008-09	2009-10	2010-11
Peak Demand	3,062	3,188	3,872
Peak Demand met	2,987	3,120	3,792
Deficit(-)/Surplus (+)	(-)2.4%	(-)2.2%	(-)2.1%

Source :CEA LGBR

- The Report of 17th Electric Power Survey (EPS) of India published by CEA in March, 2007 made the forecast for the power demand of Odisha for 11th, 12th & 13th Plan as shown in Table below:-

FY	2011-12 (End of 11 th Plan)	2012- 13	2013- 14	2014- 15	2015- 16	2016-17 (End of 12 th Plan)	2021-22 (End of 13 th Plan)	Remarks
Peak Demand (MW)	4459	4783	5130	5502	5902	6330	10,074	As per Table 6.4 of 17 th EPS of CEA, Energy Requirement and Peak Demand have been computed for 12 th Plan @ 7.57% and 7.26% respectively.
Energy Requirement (MU)	27149	29204	31415	33793	36351	39096	63,098	
Installed Capacity Required (MW)	6670	7154	7687	8245	8828	9469	15,069	

GRIDCO and OPTCL have submitted before the Commission that PRDC, Bangalore made a study by Monte-Carlo Simulation Method as well as by Analytical Method to assess the quantum of surplus power during the terminal year of 11th Plan i.e. during FY 2011-12 and during 12th Plan period based on the forecast of demand made by OPTCL as well as in 17th EPS of CEA mentioned above and submitted their Report to GRIDCO in August, 2011 which observes as under:

“Odisha State will not be surplus up to FY 2015-16 and Odisha Power Sector would witness a surplus scenario from FY 2016-17 onwards.”

The Commission has analysed the emerging power scenario of Odisha during 12th Plan as shown in table below:

Emerging Scenario of deficit/surplus of power during FY 2011-12 & 12th Plan period

(All in MW)

FY	Peak Demand as per 17th EPS of CEA	Maximum Peak Demand that can be met	Deficit(-)/Surplus(+)
2011-12	4459	3125	(-)1334
2012-13	4783	3650	(-)1133
2013-14	5130	4050	(-)1080
2014-15	5502	4200	(-)1302
2015-16	5902	5880	(-) 22
2016-17	6330	9768	(+)3438

4. Power Procurement from CGPs Including Co-generation

- Supply of surplus power by CGPs/Co-generation/ SHEP:**
Total installed Capacity: (Grid Connected) **4454 MW**
No of CGPs supplying surplus power: to GRIDCO **27 Nos.**
- Availability of power from CGPs:** **300 MW Average**
- Power procured from CGPs: As given in table below:**

Year	CGP(MU)	Co-Gen (MU)	Total (MU)	Average Rate Rs./KWH
2005-06	475.34	75.01	550.35	1.17
2006-07	628.42	165.72	794.14	1.59
2007-08	381.60	354.45	736.05	1.88
2008-09	712.40	479.91	1192.31	2.29
2009-10	2295.48	671.61	2967.09	3.18
2010-11	2240.08	781.15	3021.23	2.91

- Rate of procurement of power:**
From : 01-11-2009

CGP: Rs. 3.10/3.40/3.70/4.05 per Unit
Co-generation: Rs. 3.20/3.40/3.70/4.05 per Unit

From : 10-11-2010 to 31.03.2011 and continuing till date
Both for CGP and Co-generation:

100% Supply to GRIDCO Rs. 2.75/3.10/3.25 per Unit
60% Supply to GRIDCO Rs. 2.75/3.00/3.20 per Unit

GRIDCO Drawal from CGPs & Co-generation Plants (Provisional)

Sl. No.	Name of CGPs & Co-generation Plants	Installed Capacity (MW)	2006-07 (Audited)			2007-08(Audited)			2008-09 (Audited)			2009-10 (Provisional)			2010-11 (Provisional)		
			Energy (MU)	Cost (Rs.in Cr)	Avg. Rate Rs./K WH	Energy (MU)	Cost (Rs.in Cr)	Avg. Rate Rs./K WH	Energy (MU)	Cost (Rs.in Cr)	Avg. Rate Rs./KWH	Energy (MU)	Cost (Rs.in Cr)	Avg. Rate Rs./KWH	Energy (MU)	Cost (Rs.in Cr)	Avg. Rate Rs./K WH
	CGPs																
1	NALCO	1,080.00	421.62	62.12	1.47	129.52	18.24	1.41	80.28	13.46	1.68	14.57	4.38	3.01	58.31	13.81	2.37
2	ICCL	108.00	19.15	1.80	0.94	3.29	0.31	0.94	42.87	11.99	2.80	187.36	57.31	3.06	47.46	13.69	2.88
3	INDAL(HINDALCO)	367.50	31.36	2.42	0.77	31.77	5.09	1.60	49.22	10.58	2.15	90.87	28.49	3.14	56.22	15.29	2.72
4	RSP	220.00	39.10	2.52	0.64	24.73	1.72	0.70	14.04	1.02	0.73	20.88	1.92	0.92	20.05	2.09	1.04
5	NBVL	95.00	2.14	0.13	0.61				176.00	42.30	2.40	230.77	69.22	3.00	177.68	49.57	2.79
6	Vedanta (jharsuguda)	1,215.00							29.27	6.17	2.11	697.10	242.49	3.48	741.93	240.76	3.25
7	JSL	263.00				23.12	2.90	1.25	280.01	70.08	2.50	874.63	292.87	3.35	916.38	284.12	3.10
8	BHUSAN (S&P)	360.00	115.05	25.11	2.18	169.17	38.28	2.26	35.38	7.40	2.09	97.76	11.51	1.18	112.80	25.18	2.23
9	Rathi Steel & Power	20.00							0.38	0.06	1.58	18.53	5.56	3.00	13.85	2.46	1.78
10	Maheswary	24.00										2.99	0.93	3.11	10.53	2.40	2.28
11	Dinabandhu	10.00										3.56	1.09	3.06	17.17	5.14	2.99
12	OSIL, Palaspanga	36.00										25.04	7.85	3.13	40.38	11.64	2.88
13	SCAW Industries	8.00							4.80	0.88	1.83				10.99	1.93	1.76
14	Shree Mahavir Ferro Alloys	12.00							0.15	0.05	3.33	31.42	9.61	3.06	14.48	3.63	2.51
15	OCL Iron &Steel	14.00													1.41	0.44	3.12
16	Maithan														0.44	0.08	1.82
	Sub Total	3832.50	628.42	94.10	1.50	381.60	66.54	1.74	712.40	163.99	2.30	2295.48	733.23	3.19	2240.08	672.23	3.00

Sl. No.	Name of CGPs & Co-generation Plants	Installed Capacity (MW)	2006-07 (Audited)			2007-08(Audited)			2008-09 (Audited)			2009-10 (Provisional)			2010-11 (Provisional)		
			Energy (MU)	Cost (Rs.in Cr)	Avg. Rate Rs./K WH	Energy (MU)	Cost (Rs.in Cr)	Avg. Rate Rs./K WH	Energy (MU)	Cost (Rs.in Cr)	Avg. Rate Rs./KWH	Energy (MU)	Cost (Rs.in Cr)	Avg. Rate Rs./KWH	Energy (MU)	Cost (Rs.in Cr)	Avg. Rate Rs./K WH
Co-Generation Plants																	
1	NINL	62.50	71.17	14.38	2.02	88.55	17.89	2.02	76.33	17.53	2.30	71.07	22.25	3.13	73.95	20.83	2.82
2	ARATI STEEL	40.00	85.65	17.55	2.05	84.09	18.49	2.20	127.39	29.85	2.34	116.21	35.52	3.06	85.18	23.32	2.74
3	TATA SPONGE	26.00	1.06	0.08	0.75	112.44	25.45	2.26	126.11	29.55	2.34	126.17	37.01	2.93	126.22	35.13	2.78
4	SMC Power	33.00							32.78	6.75	2.06	46.87	15.03	3.21	50.15	13.45	2.68
5	IFFCO,Paradeep	110.00				0.29	0.06	2.07				24.18	7.64	3.16	38.87	11.11	2.86
6	Visa Steel Duburi	50.00							1.97	0.19	0.96	8.60	2.62	3.05	24.57	5.02	2.04
7	VEDANT (Lanjigarh)	90.00	0.25	0.01	0.40	17.45	2.81	1.61	10.32	2.21	2.14	18.96	5.88	3.10	20.24	5.44	2.69
8	SHYAM DRI	30.00				8.89	1.80	2.02	31.02	6.67	2.15	28.78	8.87	3.08	111.44	29.69	2.66
9	BHUSAN (S&S)	110.00	7.59	0.35	0.46	42.74	5.15	1.20	58.80	12.69	2.16	137.95	45.59	3.30	129.62	29.75	2.30
10	Action Ispat	37.00										26.81	8.52	3.18	24.56	6.33	2.58
11	Aryan Ispat	18.00										29.88	9.62	3.22	62.06	17.66	2.85
12	Pattnaik Steel,Palaspanga	15.00							15.19	3.35	2.21	36.13	11.19	3.10	34.29	9.38	2.74
	Sub Total	621.50	165.72	32.37	1.95	354.45	71.65	2.02	479.91	108.79	2.27	671.61	209.74	3.12	781.15	207.11	2.65
	TOTAL	4,454.00	794.14	126.47	1.59	736.05	138.19	1.88	1,192.31	272.78	2.29	2,967.09	942.97	3.18	3021.23	879.34	2.91

5. GRIDCO

POWER PURCHASE FROM DIFFERENT SOURCES BY GRIDCO

Generators	COMMISSION'S APPROVAL FOR 2010-11			ACTUAL FOR 2010-11 (Audited)			COMMISSION'S APPROVAL FOR 2011-12			ACTUAL FOR 2011-12 (Upto Sept 2011)			COMMISSION'S APPROVAL FOR 2012-13		
	Energy (MU)	Total Rate P/U	Total cost (Rs. Cr.)	Energy (MU)	Total Rate P/U	Total cost (Rs. Cr.)	Energy (MU)	Total Rate P/U	Total cost (Rs. Cr.)	Energy (MU)	Total Rate P/U	Total cost (Rs. Cr.)	Energy (MU)	Total Rate P/U	Total cost (Rs. Cr.)
HYDRO (OLD)	3676.86	58.49	215.06	2973.40	66.94	199.04	3676.86	63.15	232.19	2304.65	57.45	132.40	3676.86	66.05	242.87
Indravati	1942.38	75.59	146.82	1632.50	87.96	143.59	1942.38	77.21	149.97	1012.20	79.27	80.24	1942.38	79.26	153.96
Machakund	262.50	21.95	5.76	268.44	30.62	8.22	262.50	22.06	5.79	100.05	22.09	2.21	262.50	30.51	8.01
Total Hydro	5881.74	62.51	367.65	4874.34	71.98	350.85	5881.74	65.96	387.96	3416.90	62.88	214.85	5881.74	68.83	404.84
OPGC	2853.53	149.04	425.30	2843.40	159.30	452.94	2892.49	179.22	518.39	1295.10	166.00	214.99	2890.82	195.15	564.14
TTPS (NTPC)	2957.32	171.38	506.84	3374.97	166.64	562.41	2957.32	180.50	533.80	1630.39	166.87	272.06	2957.32	179.87	531.94
IPPs (Sterilite Energy ltd & Arati.)	646.23	243.54	157.38	845.61	200.35	169.42	3357.12	275.00	923.21	880.73	257.95	227.18	3556.92	278.91	992.06
Total CGPs	1051.00	325.00	341.58	3013.67	271.48	818.15	603.79	277.76	167.71				696.10	286.21	199.23
Co-Generation Plants	529.00	330.00	174.57				512.46	275.00	140.93				857.18	233.61	200.25
Total State Thermal	8037.08	199.78	1605.66	10,077.65	198.75	2002.92	10323.18	221.25	2284.03	4663.40	196.10	914.48	10766.92	229.94	2475.79
Small Hydro	300.00	305.00	91.50	249.73	414.93	103.62	300.00	320.32	96.10	160.02	320.27	51.25	300.00	368.00	110.40
Renewable Biomass													122.00	501.00	61.12
Renewable Solar										0.31	1838.71	0.57	46.00	517.52	23.81
TOTAL STATE	14218.80	145.22	2064.81	15201.72	161.65	2457.39	16504.92	167.71	2768.08	8240.63	143.33	1181.15	17116.66	179.71	3075.96
CHUKHA	271.79	183.32	49.83	278.49	159.00	44.28	273.36	181.38	49.58	174.52	189.03	32.99	272.90	162.86	44.44
Tala HPS	145.17	209.12	30.36	151.56	184.02	27.89	143.16	206.97	29.63	111.12	214.72	23.86	144.29	206.90	29.85
Teesta-V	507.19	186.42	94.55	532.00	181.02	96.30	511.32	172.17	88.03	340.99	161.88	55.20	510.95	214.44	109.57
Total Central Hydro	924.16	189.07	174.73	962.05	175.12	168.47	927.84	180.25	167.24	626.63	178.81	112.05	928.14	198.10	183.87
TSTPS St-I	2145.54	207.08	444.29	2207.97	233.14	514.76	2163.00	294.27	636.51	986.91	353.29	348.67	2161.45	328.53	710.11
TSTPS St-II	1349.39	216.01	291.48	1474.44	215.44	317.65	1360.38	301.56	410.23	690.24	352.69	243.44	1359.40	328.10	446.02
FSTPS	1464.49	302.57	443.12	1550.92	352.55	546.77	1476.42	417.14	615.88	675.75	490.95	331.76	1475.36	467.33	689.47
KhTPS St-I	840.63	275.32	231.44	766.29	289.88	222.13	847.47	318.82	270.19	401.73	418.34	168.06	846.86	407.96	345.48
KhTPS St-II	60.72	279.63	16.98	173.10	323.34	55.97	209.16	345.03	72.17	72.40	441.30	31.95	209.01	413.59	86.44
Total Central Thermal	5860.77	243.54	1427.31	6172.72	268.48	1657.28	6056.42	331.05	2004.97	2827.03	397.55	1123.88	6052.08	376.32	2277.53
Total Central Sector	6784.93	236.12	1602.04	7134.77	255.89	1825.75	6984.26	311.02	2172.22	3453.66	357.86	1235.93	6980.22	352.63	2461.40
UI Over Drawal				554.32	147.33	81.67				304.81	207.01	63.10			
Power Banking	-			-21.83		5.06	-			23.49			-		
IEX & Others						1.66									
PGCIL Tr. Charge					21.19	151.17								21.56	150.50
ERLDC Charges														0.45	3.15
TOTAL GRIDCO	21003.70	174.58	3666.85	22,868.98	197.77	4522.70	23489.18	210.32	4940.30	12022.59	206.29[#]	2480.18	24096.88	236.17	5691.02

* Up to December 2011, the Total Rate (P/U) is 210.00

6. Harnessing of power from Renewable Energy Sources:

As per the estimation of Odisha Renewable Energy Development Agency (OREDA), the Renewable energy power potential of Odisha state is around 2500 MW (excluding solar) as presented below .

RE power potential of Odisha

Sr No	Source	Potential (MW)
1	Wind Energy	1700
2	Biomass Power	350
3	Micro/ Mini /Small hydro	360
4	Municipal Solid / liquid waste	20 MW
5	Solar	5.5 kWh/sqm/day

As per the Electricity Act, 2003, promotion of cogeneration and generation of electricity from renewable sources of energy have been made the explicit responsibility of the SERCs. According to Clause 6.4 of Tariff Policy and provisions of section 86(1)(e) of the Act, the Appropriate Commission shall fix a minimum percentage for purchase of energy from such sources taking into account availability of such resources in the State and its impact on retail tariffs. Such percentage for purchase of energy should be made applicable for the tariffs to be determined by the SERCs w.e.f. April 1, 2006. Again the National Action Plan on Climate Change (NAPCC) prepared by Prime Minister's Council on Climate Change under Clause 4.2.2 states that at the National level for FY 2010 target for RE Purchase may be set at 5% of total grid purchase, to be increased by 1% each year for 10 years. SERCs may set higher target than this minimum at any point of time.

Policy for development of renewable energy sources in the State is being formulated by the State Govt. The State Regulatory Commission has to determine the tariff for various renewable energy technologies and promote them.

The levlized generic tariff for various renewable sources of energy having "Single part tariff" is approved as in the following table:

Particular	Levellised Total Tariff (for the control period 2010-11 to 2012-13) (Rs./kWh)	Benefit of Accelerated Depreciation (if availed) (Rs./kWh)	Net Levellised Tariff (upon adjusting for Accelerated Depreciation benefit) (if availed) (Rs./kWh)	Tariff Period (Years)
Wind Energy	5.31	(0.83)	4.48	13
SHP projects of 5 to 25 MW capacity	3.64	(0.55)	3.09	13
SHP projects below 5 MW capacity	3.91	(0.60)	3.31	35
Solar PV	17.80	(3.03)	14.77	25
Solar Thermal	14.73	(2.41)	12.32	25

The levellized generic tariff for various renewable sources of energy having “Single part tariff with two components “ is approved as in the following table:

Particular	Levellized fixed component of Tariff (Rs./kWh)	Variable(Fuel) Component of tariff for FY 2011-12	Effective tariff for FY 2011-12	Benefit of Accelerated depreciation (if availed) (Rs./kWh)	Net Tariff (Rs./kWh)
Biomass	2.02	3.08	5.10	(0.21)	4.89
Non-fossil fuel based co-generation	2.26	2.24	4.50	(0.28)	4.22

OERC in its order dt 30.09.2010 vide Case No.-59/2010 has issued a Regulation fixing the RPO (Renewable Purchase Obligation) in the State of Odisha .Accordingly, the year and source wise RPO would be as below:

Year-wise target	Minimum quantum of purchase in percentage (in terms of energy consumption in the State in KWH)			
	Renewable		Co-generation	Total
	Solar	Non-solar		
2009-10 (Actual)	-	0.80	3.45	4.25
2010-11	-	1.0	3.50	4.5
2011-12	0.10	1.20	3.70	5.0
2012-13	0.15	1.40	3.95	5.5
2013-14	0.20	1.60	4.20	6.0
2014-15	0.25	1.80	4.45	6.5
2015-16	0.30	2.00	4.70	7.0

7. Distribution

a) OVERALL PERFORMANCE OF DISCOMS

(DISCOMs of Odisha have been privatized since 1999.)

	1999-00	2008-09		2009-10 (Provisional)		2010-11 (Provisional)		2011-12 (Provisional)	
	Actual (Aud)	OERC Approval	Actual	OERC Approval	Actual	OERC Approval	Actual	OERC Approval	Actual upto Sept,2011
A. DISTRIBUTION LOSS (%)									
CESU	44.89%	29.30%	40.34%	26.30%	39.43%	25.37%	38.30%	24.00%	38.30%
NESCO	43.35%	25.50%	34.57%	23.00%	32.52%	18.46%	32.75%	18.40%	33.29%
WESCO	44.17%	25.00%	33.55%	22.50%	34.68%	19.93%	38.05%	19.70%	38.28%
SOUTHCO	41.84%	30.40%	47.78%	27.92%	48.02%	27.82%	48.00%	26.50%	48.00%
ALL ODISHA	43.91%	27.00%	37.50%	24.45%	37.24%	22.22%	38.34%	21.71%	38.28%
B. COLLECTION EFFICIENCY (%)									
CESU	69.72%	95.00%	91.80%	98.00%	97.09%	98.00%	95.60%	99.00%	94.30%
NESCO	79.37%	95.00%	92.50%	98.00%	95.24%	98.00%	94.34%	99.00%	92.84%
WESCO	83.36%	96.60%	93.86%	98.00%	98.38%	98.00%	93.38%	99.00%	89.31%
SOUTHCO	78.75%	94.00%	94.21%	98.00%	95.89%	98.00%	92.00%	99.00%	89.00%
ALL ODISHA	77.19%	95.40%	92.98%	98.00%	96.96%	98.00%	93.06%	99.00%	91.89%
C. AT & C LOSS (%)									
CESU	61.58%	32.84%	45.23%	27.77%	41.19%	26.86%	41.00%	24.76%	41.80%
NESCO	55.04%	29.23%	39.48%	24.54%	35.73%	20.09%	36.56%	19.22%	38.06%
WESCO	53.46%	27.55%	37.63%	24.05%	35.74%	21.53%	42.15%	20.50%	44.87%
SOUTHCO	54.20%	34.58%	50.80%	29.36%	50.16%	29.27%	52.00%	27.23%	53.12%
ALL ODISHA	56.71%	30.36%	41.89%	25.96%	39.15%	23.77%	42.62%	22.49%	43.29%
D. REALIZATION PER UNIT INPUT (P/U)									
CESU	93.00	196.28	165.73	201.72	173.98	236.73	223.08	303.03	244.67
NESCO	108.87	191.62	178.33	192.07	188.90	260.69	225.67	336.39	273.45
WESCO	130.19	211.45	201.86	203.12	200.58	257.15	218.01	328.40	256.11
SOUTHCO	116.93	157.50	141.77	169.44	138.33	196.07	165.19	259.65	185.18
ALL ODISHA	109.85	195.88	178.27	196.32	181.98	244.37	215.19	313.14	247.10

	1999-00	2008-09		2009-10 (Provisional)		2010-11 (Provisional)		2011-12 (Provisional)	
	Actual (Aud)	OERC Approval	Actual	OERC Approval	Actual	OERC Approval	Actual	OERC Approval	Actual upto Sept,2011
<u>LT PERFORMANCE OF DISCOMs (Based on Performance Review Data)</u>									
A. LT LOSS (%)									
CESU	50.48%	36.00%	52.00%	35.04%	51.97%	29.40%	50.20%	29.20%	51.60%
NESCO	62.26%	44.50%	59.40%	33.19%	55.83%	29.40%	55.36%	27.05%	55.21%
WESCO	60.64%	46.70%	65.65%	35.86%	62.49%	29.40%	63.90%	27.11%	61.96%
SOUTHCO	48.85%	33.40%	57.12%	29.50%	56.22%	29.40%	55.00%	27.75%	55.00%
ALL ODISHA	55.11%	40.30%	58.06%	34.04%	56.26%	29.40%	56.58%	27.98%	54.99%
B. COLLECTION EFFICIENCY IN LT (%)									
CESU	69.72%	95.00%	84.63%	98.00%	96.51%	98.00%	87.30%	99.00%	89.80%
NESCO	79.37%	95.00%	72.61%	98.00%	77.43%	98.00%	75.60%	99.00%	72.51%
WESCO	83.36%	96.60%	73.42%	98.00%	76.01%	98.00%	73.75%	99.00%	73.83%
SOUTHCO	78.75%	94.00%	89.10%	98.00%	92.77%	98.00%	88.00%	99.00%	86.00%
ALL ODISHA	77.19%	95.40%	80.63%	98.00%	87.62%	98.00%	83.21%	99.00%	80.47%
C. AT & C LOSS FOR LT (%)									
CESU	65.47%	39.20%	59.38%	36.34%	53.65%	30.81%	56.50%	29.91%	56.60%
NESCO	70.05%	47.28%	70.52%	34.53%	65.80%	30.81%	66.25%	27.78%	67.53%
WESCO	67.19%	48.51%	74.78%	37.14%	71.49%	30.81%	73.38%	27.84%	71.91%
SOUTHCO	59.72%	37.40%	61.79%	30.91%	59.39%	30.81%	61.00%	28.47%	64.00%
ALL ODISHA	65.35%	43.05%	66.18%	35.36%	61.68%	30.81%	63.87%	28.70%	63.78%

Business Plan Target for 2012-13 (Overall)

	Distribution Loss	Collection Efficiency	AT&C Loss
CESU	23.00%	99.00%	23.77%
NESCO	18.35%	99.00%	19.17%
WESCO	19.60%	99.00%	20.40%
SOUTHCO	25.50%	99.00%	26.25%
All Odisha	21.20%	99.00%	21.99%

**b) LT – DIVISIONAL PERFORMANCE OF DISCOMS
CESU**

Sl. No.	Name of Division	FY 2011-12		FY 2010-11		Change in AT & C Loss	Realization per Input-LT 2011-12	Realization per Input LT 2010-11	Percentage Improvement
		Overall Loss (%)	Overall AT & C Loss (%)	Overall Loss (%)	Overall AT & C Loss (%)				
OERC TARGET		29.90%	24.80%	30.81%	26.90%	-2.10%	220	170.87	28.75%
1	BCDD-1	8.90%	12.30%	9.30%	14.40%	-2.10%	382	359.92	6.13%
2	BCDD-2	30.10%	25.10%	25.50%	23.00%	2.10%	260	260.72	-0.28%
3	BED-Bhu	27.30%	27.10%	28.60%	29.10%	-2.00%	278	260.7	6.64%
4	NEDN-Nimapada	72.40%	73.50%	71.90%	73.20%	0.30%	79	79.26	-0.33%
5	PED-Puri	64.50%	64.30%	65.20%	65.50%	-1.20%	122	116.39	4.82%
6	NED-Nayagada	53.80%	57.00%	53.60%	50.70%	6.30%	128	133.1	-3.83%
7	KED-Khorda	61.10%	42.90%	60.20%	44.50%	-1.60%	129	125.45	2.83%
8	BED-Balugaon	61.30%	49.70%	60.40%	50.30%	-0.60%	112	112.57	-0.51%
9	CED	73.30%	53.70%	72.70%	56.90%	-3.20%	86	83.94	2.45%
10	CDD-I	33.90%	35.40%	36.90%	39.00%	-3.60%	258	233.79	10.36%
11	CDD-II	46.80%	34.80%	41.90%	33.80%	1.00%	204	213.27	-4.35%
12	AED-Athagada	77.40%	34.60%	75.40%	36.30%	-1.70%	65	68.88	-5.63%
13	SED	69.40%	71.90%	67.50%	70.20%	1.70%	85	91.13	-6.73%
14	KED-I	62.80%	65.20%	58.30%	61.50%	3.70%	113	120.37	-6.12%
15	KED-II	68.50%	70.30%	67.80%	69.70%	0.60%	90	91.19	-1.30%
16	PDP-Paradeep	67.70%	25.60%	65.20%	28.30%	-2.70%	100	106.12	-5.77%
17	JED	70.10%	72.50%	70.10%	72.50%	0.00%	89	85.58	4.00%
18	DED	75.20%	55.90%	74.20%	55.10%	0.80%	80	79.61	0.49%
19	ANED-Anugul	68.30%	60.70%	71.60%	58.20%	2.50%	114	98.33	15.94%
20	TED-Chainpal	74.20%	25.20%	75.50%	16.80%	8.40%	83	75.65	9.72%
CESU Total		56.50%	41.80%	56.60%	41.00%	0.80%	150	143.88	4.25%

NESCO

Sl. No.	Name of Division	For FY 2011-12		For FY 2010-11		Change in AT&C Loss	LT Realization to LT Input P/U		Percentage Change
		AT & C Loss (%)		AT & C Loss (%)			for 2011-12	for 2010-11	
		LT	TOTAL	LT	TOTAL				
OERC TARGET		27.78%	19.22%	30.81%	20.09%	-0.87%	227.45	143.20	58.83%
1	BED, Balasore	41.38%	30.53%	35.98%	26.79%	3.74%	217	220	-1.36%
2	BTED, Basta	71.82%	73.55%	65.18%	67.58%	5.97%	72	81	-11.11%
3	JED, Jaleswar	67.38%	52.70%	61.49%	49.58%	3.12%	84	84	0.00%
4	CED, Balasore	73.05%	24.69%	66.20%	18.89%	5.80%	82	96	-14.58%
5	BNED, Bhadrak (N)	71.11%	35.49%	70.77%	32.11%	3.38%	94	91	3.30%
6	BSED, Bhadrak (S)	81.59%	78.96%	78.67%	78.85%	0.11%	49	56	-12.50%
7	SED, Soro	61.36%	63.20%	67.03%	68.45%	-5.19%	109	93	17.20%
8	BPED, Baripada	61.59%	60.72%	63.42%	62.08%	-1.36%	127	114	11.40%
9	UED, Udala	71.54%	73.48%	72.07%	73.90%	-0.42%	91	81	12.35%
10	RED, Rairangpur	69.87%	67.77%	69.77%	66.86%	0.91%	101	93	8.60%

Sl. No.	Name of Division	For FY 2011-12		For FY 2010-11		Change in AT&C Loss	LT Realization to LT Input P/U		Percentage Change
		AT & C Loss (%)		Percentage Change			for 2011-12	for 2010-11	
		LT	TOTAL	LT	TOTAL				
11	JRED, Jajpur Road	72.90%	18.57%	71.92%	19.22%	-0.65%	92	87	5.75%
12	JTED, Jajpur Town	66.93%	69.58%	66.46%	69.14%	0.44%	88	82	7.32%
13	KUED, Kuakhia	66.60%	63.74%	62.70%	65.68%	-1.94%	102	103	-0.97%
14	KED, Keonjhar	69.58%	47.76%	55.60%	18.09%	29.67%	112	147	-23.81%
15	AED, Anandapur	79.41%	73.40%	80.58%	73.94%	-0.54%	62	58	6.90%
16	JOED, Joda	59.44%	14.93%				147		
NESCO Total		67.53%	38.06%	65.74%	36.04%	2.02%	103	101	1.98%

WESCO

Sl. No.	NAME OF DIVISION	FY 2011-12		FY 2010-11		Change in AT & C Loss	Realization Per Unit-LT FOR 2011-12 (Paise)	Realization Per Unit-LT FOR 2010-11 (Paise)	Percentage Change
		AT & C LOSS (%)		AT & C LOSS (%)					
		LT	Overall	LT	Overall				
OERC TARGET		27.84%	20.50%	30.81%	21.53%	-1.03%	198.1	112.07	76.76%
1	BARGARH(W)	82.41%	81.24%	84.33%	82.70%	-1.46%	46.2	39.44	17.14%
2	NUAPADA	80.00%	80.14%	81.84%	81.17%	-1.03%	63.65	52.13	22.10%
3	SONEPUR	80.81%	77.16%	79.46%	77.05%	0.11%	48.7	48.92	-0.45%
4	BARGARH	75.75%	71.22%	79.11%	67.75%	3.47%	71.63	57.75	24.03%
5	BOLANGIR	77.80%	75.31%	78.51%	75.25%	0.06%	67.3	62.38	7.89%
6	SUNDERGARH	75.71%	59.05%	75.28%	59.75%	-0.70%	72	68.69	4.82%
7	SAMBALPUR	71.90%	57.57%	74.34%	60.05%	-2.48%	99.24	82.35	20.51%
8	TITLAGARH	75.14%	67.70%	73.27%	63.80%	3.90%	75.18	73.89	1.75%
9	KWED	70.39%	72.87%	72.65%	74.76%	-1.89%	88.62	77.8	13.91%
10	DEOGARH	69.64%	57.32%	69.69%	50.34%	6.98%	85.15	83.36	2.15%
11	JHARSUGUDA	68.77%	27.34%	69.52%	22.88%	4.46%	103	91.87	12.11%
12	SAMBALPUR(E)	70.05%	58.26%	69.50%	57.34%	0.92%	102.21	97.43	4.91%
13	KEED	66.02%	63.37%	66.61%	62.58%	0.79%	105.27	100.63	4.61%
14	ROURKELA	63.76%	36.56%	64.87%	37.78%	-1.22%	121.91	109.63	11.20%
15	RAJGANGPUR	50.42%	14.72%	60.53%	12.45%	2.27%	187.89	132.37	41.94%
16	ROURKELA SADAR	64.25%	41.32%				127.14		
Total	WESCO	71.91%	44.87%	73.38%	42.15%	2.72%	89.47	78.71	13.67%

SOUTHCO

Sl. No.	Name of Division	FY-2011-12		FY 2010-11		Change in AT & C Loss	LT Realization to LT Input P/U for 2011-12	LT Realization to LT Input P/U for 2010-11	Percentage Change
		AT & C LOSS (%)		AT & C LOSS (%)					
		LT	TOTAL	LT	Over All				
OERC TARGET		28.47%	27.20%	30.81%	29.27%	-2.07%	203.00	143.70	41.27%
1	ASKA- II	82.00%	83.00%	76.63%	78.10%	4.90%	53.00	64.01	-17.20%
2	ASKA- I	72.00%	72.00%	75.43%	75.91%	-3.91%	86.00	67.69	27.06%
3	BHANJANAGAR	73.00%	74.00%	73.13%	74.96%	-0.96%	82.00	74.49	10.09%
4	MALKANGIRI	78.00%	65.00%	71.93%	66.21%	-1.21%	70.00	89.79	-22.04%
5	PURUSOTTAMPUR	74.00%	74.00%	67.98%	68.89%	5.11%	75.00	86.37	-13.17%
6	BOUDH	74.00%	70.00%	67.15%	65.54%	4.46%	81.00	96.50	-16.06%
7	CHATRAPUR	74.00%	39.00%	66.61%	37.93%	1.07%	78.00	93.16	-16.27%
8	DIGAPAHANDI	69.00%	71.00%	66.23%	68.61%	2.39%	87.00	91.82	-5.25%
9	PARALAKHEMUNDI	61.00%	62.00%	59.98%	62.35%	-0.35%	119.00	117.83	0.99%
10	KORAPUT	69.00%	33.00%	59.23%	29.18%	3.82%	103.00	131.74	-21.81%
11	NOWRANGPUR	70.00%	64.00%	58.88%	53.10%	10.90%	106.00	141.09	-24.87%
12	JEYPORE	56.00%	36.00%	56.82%	32.41%	3.59%	157.00	145.07	8.22%
13	PHULBANI	61.00%	64.00%	56.55%	59.11%	4.89%	125.00	135.70	-7.89%
14	GUNUPUR	51.00%	53.00%	54.65%	56.65%	-3.65%	154.00	136.55	12.78%
15	BERHAMPUR- I	47.00%	39.00%	45.83%	41.03%	-2.03%	191.00	174.75	9.30%
16	BERHAMPUR- II	40.00%	44.00%	41.40%	44.40%	-0.40%	212.00	186.91	13.43%
17	RAYAGADA	39.00%	28.00%	40.15%	31.08%	-3.08%	208.00	190.03	9.46%
18	BERHAMPUR- III	53.00%	51.00%	33.08%	35.10%	15.90%	153.00	203.19	-24.70%
TOTAL SOUTHCO		64.00%	53.00%	60.87%	52.04%	0.96%	116.00	118.90	-2.44%

c) Direction of the Commission to the Discoms on the Performance Review for 2011-12 (upto Sept. 2011)

1. As per Clause 7.1 of the License Conditions the licensee is required to develop and maintain an efficient, coordinated and economical distribution system in the Area of Distribution and effect supply of electricity to consumers in such area of supply in accordance with the provisions of the Act, the State Act, Rules, Regulations, Orders and Directions of the Commission. Basically the Licensee is the utility service oriented company and servicing consumers in proper manner is the primary responsibility of the Licensee.

In this connection it must be made clear to all employees of the distribution company that collection of legitimate revenue from the consumers is one of the essential requirements for maintaining the quality service to the consumers, because without collection of revenue it shall not be possible to pay the power purchase cost, meet the expenditure on salary, operation and maintenance expenditure and other essential requirement to maintain the standard of service to the consumers. Hence, each and every employee starting from the Managing Director down below upto the Lineman is individually, jointly and severally responsible to ensure proper service to the consumers by discharging their duties which inter alia includes collection of revenue as one of the most important functions. This must be made clear to all employees of the concerned distribution companies.

2. Some employee organization of the distribution companies have demanded that Managing Director/CEO should not review the performance of JEs directly when SE, EE and SDO are there. It has been reported that some JEs have also boycotted the review meeting taken by MD, WESCO. This type of attitude and stand of the employees is simply reprehensive and totally uncalled for. In the hierarchical structure of administration of the distribution licensee, all employees down below the MD/CEO heading the organization are accountable to him/her (MD/CEO) for their performance in all respects, including proper maintenance of distribution network and collection of revenue. Hence, MD/CEO can and shall review the performance of all employees starting from SEs, EEs, Assistant Engineers, Junior Engineers and even lineman at any time. The boycotting of any performance review meeting taken by MD/CEO by any employees amounts to dereliction of duties and calls for stringent disciplinary action against such employees/group of employees. This must be abundantly made clear to all employees of the distribution companies.

Any employee indulging in anti-consumer activities or showing non-cooperation in collection of revenue must be sternly dealt with and the Commission shall not tolerate any leniency in this respect.

3. Unless the overall AT&C loss is reduced substantially and per unit input realization is improved, it would be difficult for the DISCOMs to meet the power purchase cost and other day to day expenses like salary, O&M expenses etc. in view of rising procurement cost of power. The worst division should be identified and the concerned Executive Engineer may be asked to reduce at least 30% of the present level of loss by 31.3.2012. The salary of the Executive Engineer and the other staffs upto lineman for the month of March, 2012 shall not be paid unless the minimum target of 30% of the present level of loss is reduced by 31.3.2012. Similarly, all other divisions should be asked to reduce the present level of loss at least by 20% by end of 31.3.2012, failing which appropriate action should be taken against the Executive Engineer and the staff below him upto the lineman.
4. The other important directions issued by the Commission as indicated below vide their letter No. Dir(T)-336/08/2544 dated 13.1.2012 shall be scrupulously followed and compliance reported as per the time schedule indicated therein:-
 - (1) Feeder-wise responsibility should be fixed on the concerned JE and he/she should be designated as Feeder Manager. The Feeder Manager shall be personally responsible for reduction of loss in the feeder in his charge.
 - (2) Routine maintenance like trimming of trees, cleaning and ensuring neutral grounding of transformer, replacement of broken wires and loose connection would reduce the loss to a substantial extent as confirmed by Chairman-cum-CEO, CESU during performance review on 27.12.2011.
 - (3) In the past instruction was issued to cross check the meter reading taken by the meter readers or the employees of the agency engaged for meter reading and billing. In a large number of cases in CESU under billing has been detected. There should be regular cross checking of meter readings and the result thereof should be reported to the Commission before 15th of every month.
 - (4) It is seen that the meter readers are also not covering all the consumers who have been even brought to the billing fold. Monthly review should be conducted by the concerned CEO/MD to see that all the consumers in the billing fold are covered under the billing cycle.

- (5) From the review, it is seen that bills raised during the current financial year have not been collected fully and arrear has been added which works out to Rs.294.90 crore for the period 01.04.2011 to 30.09.2011 as indicated below:

Name of DISCOMs	NESCO	WESCO	SOUTHCO	CESU	Total
Addition of arrear (Rs. in Crore)	54.43	96.71	31.21	112.55	294.90

Special drive should be launched for collection of arrear both in respect of Govt. departments, urban local bodies, lift irrigation points, pani panchayat, urban water supply, rural water supply, hospital, etc. as well as other private consumers including HT & EHT consumers. All DISCOMs must ensure that all EHT and HT consumers not only pay the current monthly bills in time but also all arrears outstanding against them shall have to be cleared by 31.03.2012 at the latest. The DISCOMs are directed to report the monthly progress by 15th of the succeeding month.

- (6) Adequate number of call centers should be opened for facility of registering complaint as well as collection and giving new connection to the consumers and taking up other activities to provide better service to the consumers.
- (7) In the rural areas more Women Self Help Groups should be entrusted with billing, collection and constant liaison should be held with the District Administration to entrust number of villages to Women Self Help Groups. Each DISCOMs must cover at least 30000 consumers through Women Self Help Groups during 2011-12.
- (8) As decided in the meeting held on 29.01.2011, the agencies, organizations willing to supply install smart meters which can connect/dis-connect, enhance load remotely, and facilitate meter reading along with other standard meter features should be entrusted with supply, installation, billing and collection and increase in the revenue per input should be appropriately shared keeping in view their requirement to recover the cost of capital. Preferably one or more division should be entrusted to such of the willing agencies on Build-Own-Operate-Transfer (BOOT) modality with revenue sharing basis so that they will have economy of scale to ensure economy in operation and better performance. The broad scope of the work may be as per Annexure attached herewith subject to detail negotiation and agreement between licensees and agencies. The firms, who have participated in the presentation at OERC on the subject be approached for detailed meeting and negotiation at your end. After

negotiation and formal agreement vetting of the Commission may be sought for before signing the final agreement.

- (9) Apart from the above, the Commission vide letter No.2527 dtd.11.01.2012 has also directed as under:

“Pending Introduction of Smart Grid Solutions deploying BOOT Model on Revenue sharing basis as stated above, I am directed to inform that the Commission desires that all consumers with a Contract Demand of 20 KW or more of your DISCOM should be covered under AMR (who are not covered under BOOT Model) undertaking a Special Programme through retrofitting wherever required within 3 months time i.e. by 15.04.2012 positively, if required, meeting such expenditure from Capex Funding. The arrangement for monitoring of such AMRs in CEO’s Office, Division Office as well as in OERC shall also be made installing suitable terminals at such places so as to keep a strict vigil on the performance of AMRs and on billing of high value consumers. The road map of the completion of 100% AMR for high value consumers may please be furnished for information of the Commission.”

5. All licensees are directed to ensure strict compliance of the various directions of the Commission as per the time schedule indicated above and fix responsibilities and accountability at different levels to improve the overall performance failing which stringent action should be taken against the defaulting and non-performing officers and staffs.

8. Why rise in tariff is inevitable?

The average tariff for the distribution companies consists of 74.70% towards power purchase cost, 6.9% towards transmission & SLDC charges and 18.30% towards distribution cost. If there is increase in the cost of generation and consequently the power purchase cost of GRIDCO, the retail tariff is bound to increase.

Increasing cost of purchase of power by GRIDCO

- After 1999-2000 it is invariably seen that GRIDCO has been purchasing power from different sources at an average cost which is higher than the rate approved by the Commission. As a result, additional burden is being borne by GRIDCO in order to meet the requirement of the consumers of the State. The Table below gives a comparative picture of quantum energy, the rate and total power purchase cost approved by the Commission against which the actual quantum of energy purchased, the average rate and the total power purchase costs which are substantially higher.

Table-1**Comparison of Power Purchase Cost of Gridco Approved by the Commission in the
ARR vs. Actual**

YEAR	COMMISSION'S APPROVAL			ACTUAL		
	Energy MU	Rate P/U	Total cost Rs.in Cr.	Energy MU	Rate P/U	Total cost Rs.in Cr.
1999-00	10,176.13	103.36	1,051.82	11,197.38	104.10	1,165.60
2000-01	11,011.39	105.76	1,164.56	12,400.01	112.88	1,399.72
2001-02	12,345.07	94.60	1,167.82	12,467.03	95.27	1,187.77
2002-03	13,312.22	106.71	1,420.60	12,025.61	133.38	1,603.97
2003-04	14,818.80	115.52	1,711.87	15,896.76	100.33	1,594.89
2004-05	17,395.16	103.67	1,803.29	17,742.93	97.46	1,729.31
2005-06	16,640.02	110.36	1,836.38	16,806.08	120.41	2,023.58
2006-07	15,414.79	113.97	1,756.84	18,866.10	117.22	2,211.55
2007-08	17,539.47	119.91	2,103.11	20,934.39	119.91	2,510.28
2008-09	18,460.26	127.40	2,351.75	20,049.27	149.61	2,999.64
2009-10	19,719.37	148.27	2,923.80	20,956.19	196.94	4,127.03
2010-11	21,003.75	174.58	3,666.85	22,868.98	197.77	4,522.70
2011-12	23,489.18	210.32	4,940.30	17,575.26 (Upto Dec 2011)	210.00	3,690.81
2012-13	24,096.88	236.17	5,691.02			

- Going by the past experience and in view of the rising cost of coal and furnace oil not only consumption of energy would increase but the rate of purchase price may also rise substantially which is corroborated from the facts and figures of 2010-11 and also from the previous years (refer to Table above). This is again substantiated by rising sale price of 'F' grade and 'G' grade coal used in the thermal power stations by 19% and 23% respectively (average 21%) announced by Mahanadi Coalfield Ltd., a subsidiary of Coal India. Added to this, MCL has started billing of excise duty of 5% from 1.3.2011. Thus with hike in price of coal together with levy of excise duty the coal price is going to increase by 29% which was not fully factored in the tariff hike approved by the Commission from 01.4.2011. Consequently, the GRIDCO's power purchase cost from NTPC and other thermal power stations is going to increase from Rs.3.50 to Rs.4.00 per unit. For the end consumers the hike could possibly in the range of 70-75 paise per unit keeping in view the distribution loss. In case of OPGC the on account of enhanced excise duty the additional burden would be Rs.7.50 crore per annum which would hike up the power purchase cost of GRIDCO.
- It may be appreciated that GRIDCO was purchasing power at a higher price but selling at a lower price to the distribution companies to keep the Retail Tariff at reasonable level in order to safeguard the interest of the consumers. Even though GRIDCO is purchasing power from

different sources at a higher cost this is not being fully factored into the retail tariff for recovery from the consumers and the BST price which forms a major component of retail tariff has been kept in some years at a level lower than the purchase price. The gap left in the ARR of GRIDCO was supposed to be filled up through profit earned from sale of surplus power but with the rise in demand of the existing consumers as well as increase in number of consumers the surplus power is not available. Still then the Commission has left gap in the account of GRIDCO to keep the BST price at a low level in order to keep the retail tariff affordable. This would be evident from the table given below:-

ARR GAP OF GRIDCO

(Rs. in crore)

Financial Year	Gap in ARR (Approved)	Actual Gap	Net Gap	Rate approved for power purchase by GRIDCO(P/U)	BST Rate approved for sale to DISCOMs (P/U)
2006-07	(-) 504.52	547.55	43.03	113.97	120.85
2007-08	(-) 464.86	1052.34	587.48	119.91	121.59
2008-09	(-)410.05	528.62	118.57	127.40	122.15
2009-10	(-)882.85	(-)657.84	(-)1540.69	148.27	122.20
2010-11	(-)806.15	(+)238.44	(-)567.71	174.58	170.25
2011-12	(-)746.05	(-) 1017.24 (estimated by GRIDCO)	(-) 1017.24	210.32	231.65
2012-13	(-)700.58			236.17	270.74

- With rise in demand and consequently non-availability of surplus power for trading to earn profit, it is no longer possible to keep the BST at a lower level to ensure low retail tariff for the consumers. In fact, the low BST for 2008-09, 2009-10 and 2010-11 has resulted in increased gap in the account of GRIDCO and the cumulative gap at the end of 2010-11 has reached 2266.60 crore. Even with the average BSP of 231.65 paise per unit for 2011-12 and if there is no further increase in cost of purchase of power by GRIDCO approved at 210.32 paise per unit the gap for the year has been estimated at Rs.746.05 crore and the cumulative gap upto 31.3.2012 may go up to –(-) 3283.84 crore. The table given below explained how the gap is going up from year to year.

Truing up of GRIDCO for 2010-11 (Provisional)

(Rs. in Crore)

Financial Year	Gap in revenue requirement compared to the approved amount	Gap in revenue from sale of power compared to the approved amount	Total gap (for the year)	Add: approved gap in ARR allowed by the Commission	Gap considered for true up	Cumulative Gap (+/-)
(1)	(2)	(3)	4 (2+3)	5	6 (4+5)	7
1996-97						-295.00
1997-98	-310.15	5.86	-304.29	0.68	-303.61	-598.61
1998-99	-236.10	-420.39	-656.49	0.19	-656.30	-1254.91
1999-00	-230.33	244.14	13.81	-30.91	-17.10	-1272.01
2000-01	-359.42	194.43	-164.99	0.00	-561.97	-1437.00
2001-02	13.74	65.61	79.35	43.59	122.94	-1314.06
2002-03	-297.86	-264.11	-561.97	0.00	-561.97	-1876.03
2003-04	-79.79	586.13	506.34	0.00	506.34	-1369.69
2004-05	-73.19	322.13	248.94	217.35	466.29	-903.40
2005-06	-403.92	384.32	-19.60	15.72	-3.88	-907.28
2006-07	-175.47	723.02	547.55	-504.52	43.03	-864.25
2007-08	149.93	902.41	1052.34	-464.86	587.48	-276.77
2008-09	-410.14	938.76	528.62	-410.05	118.57	-158.20
2009-10	-1006.67	348.83	-657.84	-882.85	-1540.69	-1698.89
2010-11	(-) 589.29	827.73	238.44	(-) 806.15	(-) 567.71	(-) 2266.60
2011-12 (Prov.)				-746.05	(-) 1017.24 (estd. by GRIDCO)	(-) 3283.84
2012-13				-700.58		

9. Salient Features of Tariff for FY 2012-13

The Commission had to do a tight rope walk in approving tariff for FY 2012-13 as it had to safeguard the consumers from a tariff shock arising out of the increase in generation cost and power purchase cost, provide the utilities with reasonable revenue to run their business and keep the cross-subsidy within the stipulated limits. The highlight of the tariff for FY 2012-13 is given below.

9.2 Highlights of Tariff:-

- No rise in tariff for irrigation, pumping and agriculture and allied agricultural activities, from the present level of 110 paise and 120 paise respectively for the consumers availing such power supply in LT. Marginal rise from 320 paise to 380 paise for allied agro industrial activities.
- Similarly no rise for irrigation, pumping & agriculture and allied agricultural activities, from the present level of 100 paise and 110 paise respectively for the consumers availing such power supply in HT. Marginal rise from 310 paise to 370 paise in case allied agro industrial activities.
- Reduction of tariff from 420 paise to 400 paise for the consumers Bulk Domestic availing power supply at HT voltage.
- Ice factories depending upon marine fishing has to pay their electricity bill on the maximum demand achieved instead of contract demand during the banned period imposed by Fishery Department of GoO.
- Relaxation of 50 paise per unit for the EHT and HT industrial consumers committed in writing to pay energy bills at 70% load factor irrespective of their consumption below 70% load factor.
- Any LT consumer who wants to avail quality power by installing own transformers either in single phase or in three phase and pay the monthly bills regularly within the rebate time shall get additional rebate/concession of 5% of energy charges in addition to normal rebate. If energy bills are not paid within the rebate period no rebate shall be allowed.
- While approving the average cost of supply as Rs.460.51 for the FY 2012-13, the Commission has fixed 220 paise upto 50 units, 390 paise for the consumption above 50 units & upto 200 units, 490 paise for the consumption above 200 units & upto 400 units and 530 paise for the consumption above 400 units for the domestic category. The tariff approved by the Commission for the above slab in domestic category during FY 2011-12 was 140 paise (upto 50 units), 350 paise (above 50 units less than 200 units), 430 paise (above 200 units less upto 400 units) and 480 paise (above 400 units)
- Average tariff for consumption of 50 units, 100 units, 200 units, 300 units, 400 units, 500 units and 600 units is Rs.2.20 kwh, Rs.3.05 kwh, Rs.3.48 kwh, Rs.3.95 kwh, Rs.4.19 kwh and Rs.4.41 kwh and Rs.4.56 respectively, which is around 52%, 34%,25%, 14%, 9%, 4%

and 1.02% less than average cost of supply of Rs.4.61 approved by the Commission. A consumer is required to pay an average tariff of Rs.4.66 for the consumption of 700 units which is 1.29% higher than the average cost of supply.

Table-1

Consumption in Units	2010-11				2011-12				2012-13				Increase over 2011-12	Avg. cost per unit for all Consumers (Rs)	Comparison of tariff with Avg. Cost of Supply (%)
	Tariff Schedule		Total Billed Amount (Rs)	Avg. rate per unit in Rs.	Tariff Schedule		Total Billed Amount (Rs)	Avg. rate per unit in Rs.	Tariff Schedule		Total Billed Amount (Rs)	Avg. rate per unit in Rs.			
	Consumption (units)/ Month	Rate per unit in Paise			Consumption (units)/ Month	Rate per unit in Paise			Consumption (units)/ Month	Rate per unit in Paise					
50	<=100	140	70.0	1.40	<=50	140.00	70.0	1.40	<=50	220.00	110.0	2.20	0.80	4.61	-52.2%
100	>100,<=200	310	140.0	1.40	>50,<=200	350.00	245.0	2.45	>50,<=200	390.00	305.0	3.05	0.60	4.61	-33.8%
200	>200	410	450.0	2.25	>200	430.00	595.0	2.98	>200	490.00	695.0	3.48	0.50	4.61	-24.5%
300	>400	410	860.0	2.87	>400	480.00	1,025.0	3.42	>400	530.00	1,185.0	3.95	0.53	4.61	-14.2%
400			1,270.0	3.18			1,455.0	3.64			1,675.0	4.19	0.55	4.61	-9.1%
500			1,680.0	3.36			1,935.0	3.87			2,205.0	4.41	0.54	4.61	-4.2%
600			2,090.0	3.48			2,415.0	4.03			2,735.0	4.56	0.53	4.61	-1.0%
700			2,500.0	3.57			2,895.0	4.14			3,265.0	4.66	0.53	4.61	1.3%

- Industries having captive generating plants, availing power in EHT or HT shall have to pay 690 paise and 708 paise respectively instead of 640 paise and 650 paise fixed during 2011-12.
- Taking into all categories of consumers, there is a average tariff rise from 404.01 paise in 2011-12 to 451.84 paise in 2012-13, shows in average tariff rise of 47.83 paise from last year. (Increase in 11.8%)
- Average tariff rise from Rs.506.98 paise to Rs.551.04 (44.06 paise increase) in case of EHT consumers, Rs.524.92 paise to Rs.552.09 paise (27.17 paise increase) in case of HT consumers and Rs.300.34 paise to 368.52 paise (68.18 paise increase) in case of LT consumers.
- Average cost of supply has been approved as 460.51 paise during FY 2012-13 in place of 408.87 paise during FY 2011-12, thus there is an increase of 12.63%. Considering the receivables from different sources. Overall average tariff of 451.84 has been approved during FY 2012-13 as against 404.01 during FY 2011-12. Average tariff rise of 47.83 paise (11.84%) compared to last year.

Table-2

BREAK UP OF THE AVERAGE TARIFF FOR 2011-12 AND 2012-13 (PAISE PER UNIT)						
SL. NO		2010-11	2011-12	2012-13	INCREASE	
					IN PAISE	IN PERCENTAGE
1	Average Cost of Supply	327.37	408.87	460.51	51.64	12.63
	Overall average tariff (paise per unit)	320.58	404.01	451.84	47.83	11.84
2	Break up					
a.	Power Purchase from generators by GRIDCO	174.58	210.32	236.17	25.85	12.29
b.	Debt servicing and other expenditure of GRIDCO	(-) 4.33	21.33	34.57	13.24	62.07
c.	Total Bulk supply price of GRIDCO (a+b) payable by DISCOM	170.25	231.65	270.74	39.09	16.87
d.	Transmission Charges	23.5	25.00	25.00	0	0
e.	SLDC charges	0.18	0.18	0.18		0
f.	Distribution cost borne by the distribution companies	126.65	147.18	155.92	8.74	5.94

9.3 Cross Subsidy:-

Section 61(g) Electricity Act, 2003 read with para 8.3.2 of Tariff Policy, 2006 stipulates that the tariff should be within $\pm 20\%$ of the average cost of supply. It is worthwhile to mention here that the **Hon'ble Appellate Tribunal of Electricity**, New Delhi has set aside the ARR & tariff orders of DISCOMs for the FY 2010-11 and 2011-12 mainly because the cross subsidy was not within $\pm 20\%$ of the cost of supply. As such, the tariff order for FY 2012-13 has been approved in consonance with the statutory provisions as mentioned above and by taking into account observations of Hon'ble ATE. As the average cost of supply is 460.51 paise for FY 2012-13, average tariff of any consumer should not be more than **552.61 paise** and less than **368.41 paise**. With this mandate, the Commission has fixed 368.52 paise in case of LT (-19.98% of average cost of supply), 552.09 paise for HT (+19.89% of average cost of supply) and 551.04 paise for EHT (+19.66% of average cost of supply). The following Table compares the cross-subsidy for the last three years.

Table-3

Cross-subsidy 2012-13

Year	Level of Voltage	Average cost of supply for the State as a whole (P/U)	Average Tariff P/U	Cross-Subsidy in P/U	Percentage of Cross-subsidy above/below or cost of supply
1	2	3	4	5= (4) - (3)	6= (5 / 3)
2010-11	EHT	327.37	416.61	89.24	27.26%
	HT		423.59	96.22	29.39%
	LT		219.21	-108.16	-33.04%
2011-12	EHT	408.87	506.98	98.11	24.00%
	HT		524.92	116.05	28.38%
	LT		300.34	-108.53	-26.54%
2012-13	EHT	460.51	551.04	90.53	19.66%
	HT		552.09	91.58	19.89%
	LT		368.52	-91.99	-19.98%

9.4 Reasons for Tariff Rise

(a) **Significant Rise in Generation Cost and Power Purchase Cost:-**

- **Less low cost hydro Power:-** The principal reason for tariff hike in 2012-13 is the increase in number of electricity consumers, inadequate generation of low cost hydro power to meet growing demands & rise in cost of coal and furnace oil, which ultimately lead to increased generation cost. Earlier, during 2004-05 nearly 57% of power requirement of the state was being met from low cost state own hydro power stations. It has gone down to 27% during the FY 2012-13.

Table-4

Declination of Hydro generation in over all Power Pool

	FY 2004-05	FY 2008-09	FY 2009-10	FY 2010-11 (Provisional)	FY 2011-12 (Provisional upto 2/2012)	FY 12-13 (Approved)
State Demand (in MU)	12,499.45	18,771.82	19,524.80	21,244.79	19,395.00	23,085.00
State Hydro Generation for Sale (incl. small Hydro) (in MU)	7,087.82	5,835.72	4,211.75	5,124.46	5,114.61	6,181.74
% of state hydro to total state demand	56.7%	31.1%	21.6%	24.1%	26.4%	26.8%

- **Rise in Coal Price:-** Due to rise in cost of coal and furnace oil, the Central Thermal Generating Stations have increased their cost of sale of power to GRIDCO. There has also been 30% increase in energy charge of thermal generations due to excessive rise in cost of coal, e-auction of coal, collection of 5% excise duty on imported coal and calculation of coal value on Cross Calorific Value other than Useful Heat Value. Comparative position of power purchase rate approved vis-a-vis actual energy in MU, rate per unit and cost in Rs. Crores is shown below along with the table on the price rise of coal in case of Central Thermal Generators.

Table-5

COMPARATIVE POSITION OF POWER PURCHASE RATE APPROVED VIS-A-VIS THE ACTUAL ENERGY IN MU, RATE IN PAISE PER UNIT AND COST OF RS. CRORE		
Sources of Generation	Central Thermal	
	Commission Approval	Actual
FY 2009-10		
Energy	5905.22	5819.62
Total Rate	197.31	221.58
Total Cost	1165.18	1289.51
FY 2010-11		
Energy	5860.77	6172.72
Total Rate	243.54	268.48
Total Cost	1427.31	1657.28
FY 2011-12		
Energy	6056.42	3453.66
Total Rate	331.05	357.86
Total Cost	2004.97	1235.93
FY 2012-13		
Energy	6052.08	
Total Rate	376.32	
Total Cost	2277.53	

Table-6

Price of Coal & GCV value of CGSs

MONTH	FSTPS			KSTPS-I			KSTPS-II	TSTPS-I			TSTPS-II
	Price of Coal Rs/MT	GCV of Coal KCAL/Kg	ECR P/U	Price of Coal Rs/MT	GCV of Coal KCAL/Kg	ECR P/U	ECR P/U	Price of Coal Rs/ MT	GCV of Coal KCAL/ Kg	ECR P/U	ECR P/U
Apr-11	4,604.98	3,943.0	306.64	2,602.96	2,782.0	256.00	241.68	2,033.30	3,199.2	164.19	164.19
May-11	5,007.44	3,606.0	364.60	2,407.54	2,801.0	235.20	222.00	2,257.65	3,046.5	191.40	191.40
Jun-11	5,422.42	3,697.0	385.10	2,956.87	2,625.0	308.20	290.95	2,661.05	2,980.7	230.60	230.60
Jul-11	5,126.72	3,606.0	373.28	2,768.62	2,638.0	287.19	271.10	3,089.99	3,054.9	261.30	261.30
Aug-11	5,163.89	3,460.0	391.85	3,224.31	2,885.0	305.80	288.60	3,165.22	2,964.4	275.80	275.80
Sep-11	5,226.87	3,490.0	393.20	3,737.38	2,980.0	343.20	323.90	3,023.10	3,127.1	249.75	249.75
Oct-11	4,309.53	3,591.0	315.10	3,477.11	3,050.0	311.95	294.47	3,134.59	2,963.4	273.27	273.27
Nov-11	3,865.72	3,338.0	304.07	2,428.61	2,777.0	239.31	225.89	2,331.97	2,943.6	204.66	204.66
Dec-11	3,402.86	3,332.0	268.10	2,178.60	2,651.0	224.90	212.30	1,902.70	2,906.2	169.10	169.10
Jan-12	3,993.88	3,359.0	312.20	2,566.40	2,742.0	256.10	241.80	1,781.40	3,020.5	152.40	152.40
Avg. from 4/11 to 01/12	4,612.43	3,542.2	341.40	2,834.83	2,793.1	276.80	261.30	2,538.10	3,020.7	217.20	217.20

GCV = Gross Calorific Value CGSs = Central Generating Stations ECR = Energy Charge Rate

- The Commission had approved the energy charge for Central Thermal Power Stations for FY 2011-12 considering 20% rise in fuel price of Jan, 2011. But actual energy rate has been increased beyond the approved rate primarily due to rise in coal cost. Comparison of increase in energy charge rate in different central thermal power stations is given below. OERC has approved 10% rise on actual energy charge rate achieved for Jan, 12 for the FY 2012-13 against the 30% rise proposed by GRIDCO.

Energy Charge Rate for Central sector Generating Stations (P/U)

	Approval for 2010-11			Actual for January,2011			Approval for 2011-12			Actual for 2011-12 (Avg upto 1/12)	GRIDCO Proposal for 2012-13	% Rise of GRIDCO proposal over 2011-12 actual	Commissions approval for 2012-13 (10% Rise on Avg. upto Jan., 2012)
	VC P/U	FPA P/U	ECR P/U	VC P/U	FPA P/U	ECR P/U	VC P/U	Escalating 20% over actual Jan.2011	ECR P/U				
TSTPS-I	41.10	71.88	112.98	41.10	129.70	170.80	41.10	155.65	196.75	217.25	292.0	34.41%	238.97
TSTPS-II	58.73	52.59	111.32	58.73	112.08	170.81	58.73	134.50	193.23	217.25	291.0	33.95%	238.97
FSTPS	98.57	121.95	220.52	98.57	195.28	293.85	98.57	234.34	332.91	341.41	480.0	40.59%	375.56
KHSTPS-I	108.50	76.42	184.92	108.50	98.56	207.06	108.50	118.27	226.77	276.79	378.0	36.57%	304.46
KHSTPS-II	125.37	51.96	177.33	125.37	74.58	199.95	125.37	89.49	214.86	261.27	350.0	33.96%	287.40

N.B. – Power purchase cost from thermal station consists of fixed cost and variable cost (coal)

(b) Increase in Consumer Price Index:-

All India Consumer Price Index for Industrial Workers, has increased by 6.4% in 2007-08, 9.02% in 2008-09, 12.41% in 2009-10, 10.43% in 2010-11 and 10% in 2011-12 upto January of 2011-12. As per Consumer Price Index for Industrial Workers for Rourkela there has been rise in CPI by 10.48% in 2007-08, 2008-09, 2009-10, 11.37% in 2010-11 and 10.06% in 2011-12 upto January 2012. Taking the said index into account, it has been seen that taking 100 points in 2000-01 as basis has been increased to 198 in Jan, 2012 and assuming 10% rise in the said Index for 2012-13 it would be 218 points in 2012-13 as per All India Consumer Price Index for Industrial Workers and 226 as per CPI for Industrial Workers for Rourkela.

Kutir Jyoti:-

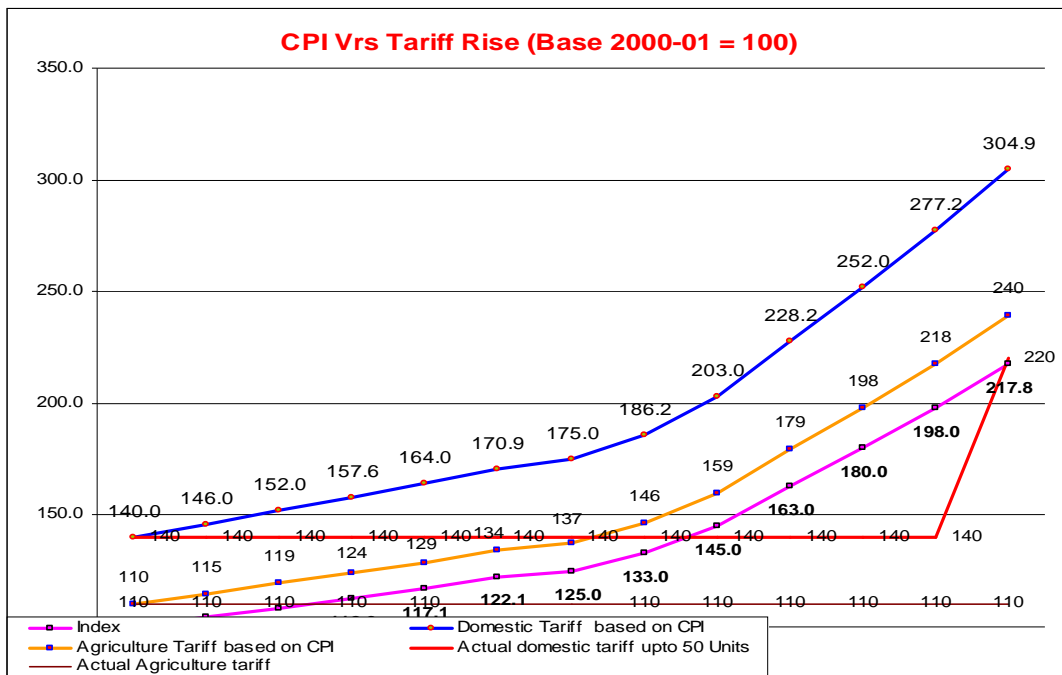
As enshrined in clause 5.5.2 of National Electricity Policy 2005, tariff of very poor category of consumers will be at least 50% of average (overall) cost of supply hence it should not be below 230.25 paise as approved average cost of supply is 460.51 paise and as per rise in All India Consumer Price Index for Industrial Workers, it would have been 218 paise and 226 paise based on the consumer price index for Rourkela for the year 2012-13. OERC has decided 200 paise per unit for BPL consumers although NEP stipulates for 230.25 paise at the minimum and as per All India Consumer Price Index for Industrial Workers, it would have been 218 paise and as per CPI for Rourkela it would have been 226 paise to neutralize the rise in CPI.

LT Domestic-0-50 Units:-

Considering the rise in All India Consumer Price Index for Industrial Workers, 140 paise in 2000-01 will be 277.20 in Jan, 2012 and 305 paise point in 2012-13. Similarly, if we

consider the Consumer Price Index of Rourkela, 140 paise in 2000-01 will be 287 paise in 2012 and 316 paise in 2012-13. However, keeping the honest paying consumers in mind, the Commission has approved 220 paise for domestic consumer having consumption upto 50 units even though as per para 5.5.2 of National Electricity Policy should not be less than 50% of the average cost of supply and 460.51 paise i.e. 230.25 paise and as per All India Consumer Price Index for Industrial Workers, it would have been 305 paise and as per CPI for Rourkela it would have been 316 paise for FY 2012-13.

Consumer price Index (CPI) Vrs Tariff Rise						
Year	Increase in CPI in %	Index	Domestic Tariff based on CPI	Actual domestic tariff upto 50 Units	Agriculture Tariff based on CPI	Actual Agriculture tariff
2000-01		100.0	140.0	140.0	110.0	110.0
2001-02	4.28	104.3	146.0	140.0	114.7	110.0
2002-03	4.10	108.6	152.0	140.0	119.4	110.0
2003-04	3.73	112.6	157.6	140.0	123.9	110.0
2004-05	4.00	117.1	164.0	140.0	128.8	110.0
2005-06	4.23	122.1	170.9	140.0	134.3	110.0
2006-07	2.40	125.0	175.0	140.0	137.5	110.0
2007-08	6.40	133.0	186.2	140.0	146.3	110.0
2008-09	9.02	145.0	203.0	140.0	159.5	110.0
2009-10	12.41	163.0	228.2	140.0	179.3	110.0
2010-11	10.43	180.0	252.0	140.0	198.0	110.0
2011-12 (upto Jan 2012)	10.00	198.0	277.2	140.0	217.8	110.0
2012-13 (Projected)	10.00	217.8	304.9	220.0	239.6	110.0



9.5 REVENUE REQUIREMENT OF DISCOMS FOR THE FY 2012-13

Expenditure	WESCO		NESCO		SOUTHCO		CESU		TOTAL DISCOMs	
	Proposed	Approved	Proposed	Approved	Proposed	Approved	Proposed	Approved	Proposed	Approved
Cost of Power Purchase		1,948.80		1,597.11		554.55		2149.6	-	6,250.06
Transmission Cost		162.40		132.65		76.18		205.9	-	577.13
SLDC Cost		1.17		0.95		0.55		1.481	-	4.15
Total Power Purchase, Transmission & SLDC Cost (A)	1,866.70	2,112.37	1,640.04	1,730.71	549.29	631.28	2,074.07	2,356.98	6,130.10	6,831.34
Employees cost	286.78	206.82	254.88	180.02	243.43	186.17	349.54	339.89	1,134.63	912.89
Repair & Maintenance Expenses	59.43	40.06	79.860	51.17	57.94	28.28	64.6	57.78	261.83	177.29
Administrative and General Expenses	48.60	29.25	51.01	21.38	42.02	19.17	62.05	39.73	203.68	109.54
Provision for Bad & Doubtful Debts	52.33	16.09	31.58	10.34	18.73	6.92	44.98	19.44	147.62	52.79
Depreciation	39.45	23.13	53.37	31.07	39.08	14.95	88.33	35.38	220.23	104.53
Interest Chargeable to Revenue including Interest on S.D	68.96	37.79	38.59	30.78	32.89	15.98	105.49	53.49	245.93	138.04
Sub-Total	555.55	353.14	509.29	324.75	434.09	271.47	714.99	545.72	2,213.92	1,495.08
Less: Expenses capitalised	2.09	2.09	0.62	0.62	2.66	2.66			5.37	5.37
Total Operation & Maintenance and Other Cost	553.46	351.05	508.67	324.13	431.43	268.81	714.99	545.72	2,208.55	1,489.71
Return on equity	7.78	7.78	10.55	10.55	6.03	6.03	11.64	11.64	36.00	36.00
Total Distribution Cost (B)	561.24	358.83	519.22	334.68	437.46	274.84	726.63	557.36	2,244.55	1,525.71
Amortisation of Regulatory Asset	52.67		73.10		166.49				292.26	-
True up of Past Losses	615.42		387.65		215.93				1,219.00	-
Contingency reserve	4.13		5.54		4.03	9.00			13.70	9.00
Total Special Appropriation (C)	672.22	-	466.29	-	386.45	9.00	-	-	1,524.96	9.00
Total Cost (A+B+C)	3,100.16	2,471.20	2,625.55	2,065.40	1,373.20	915.11	2,800.70	2,914.34	9,899.61	8,366.05
Less: Miscellaneous Receipt	25.16	49.10	17.77	50.70	10.99	17.07	70.44	45.64	124.36	162.51
Total Revenue Requirement	3,075.00	2,422.10	2,607.78	2,014.70	1,362.21	898.04	2,730.26	2,868.70	9,775.25	8,203.55
Expected Revenue (Full year)	1,816.31	2,422.27	1,579.29	2,015.02	624.36	900.32	2,249.16	2,870.91	6,269.12	8,208.52
GAP at existing(+/-)	(1,258.69)	0.17	(1,028.49)	0.32	(737.85)	2.28	(481.10)	2.21	(3,506.13)	4.97

9.6 RETAIL SUPPLY TARIFF EFFECTIVE FROM 1ST APRIL, 2012

Sl. No.	Category of Consumers	Voltage of Supply	Demand Charge (Rs./KW/Month)/ (Rs./KVA/Month)	Energy Charge (P/kWh)	Customer Service Charge (Rs./Month)	Monthly Minimum Fixed Charge for first KW or part (Rs.)	Monthly Fixed Charge for any additional KW or part (Rs.)	Rebate (P/kWh)/ DPS
	LT Category							
1	Domestic							
1.a	Kutir Jyoti <= 30 Units/month	LT	FIXED MONTHLY CHARGE-->			60		
1.b	Others							10
	(Consumption <= 50 units/month)	LT		220.00		20	15	
	(Consumption >50, <=200 units/month)	LT		390.00		20	15	
	(Consumption >200, <=400 units/month)	LT		490.00		20	15	
	Consumption >400 units/month)	LT		530.00		20	15	
2	General Purpose < 110 KVA							10
	Consumption <=100 units/month)	LT		500.00		30	25	
	Consumption >100, <=300 units/month)	LT		610.00		30	25	
	(Consumption >300 units/month)	LT		680.00		30	25	
3	Irrigation Pumping and Agriculture	LT		110.00		20	10	10
4	Allied Agricultural Activities	LT		120.00		20	10	10
5	Allied Agro-Industrial Activities	LT		380.00		80	50	DPS/Rebate
6	Public Lighting	LT		530.00		20	15	DPS/Rebate
7	L.T. Industrial (S) Supply <22 KVA	LT		530.00		80	35	10
8	L.T. Industrial (M) Supply >=22 KVA <110 KVA	LT		530.00		100	50	DPS/Rebate
9	Specified Public Purpose	LT		530.00		50	50	DPS/Rebate
10	Public Water Works and Sewerage Pumping<110 KVA	LT		530.00		50	50	10
11	Public Water Works and Sewerage Pumping >=110 KVA	LT	200	530.00	30			10
12	General Purpose >= 110 KVA	LT	200	530.00	30			DPS/Rebate
13	Large Industry	LT	200	530.00	30			DPS/Rebate
	HT Category							
14	Bulk Supply - Domestic	HT	15	400.00	250			10
15	Irrigation Pumping and Agriculture	HT	30	100.00	250			10
16	Allied Agricultural Activities	HT	30	110.00	250			10
17	Allied Agro-Industrial Activities	HT	50	370.00	250			DPS/Rebate
18	Specified Public Purpose	HT	250		250			DPS/Rebate
19	General Purpose >70 KVA < 110 KVA	HT	250		250			10
20	H.T Industrial (M) Supply	HT	250		250			DPS/Rebate
21	General Purpose >= 110 KVA	HT	250		250			DPS/Rebate
22	Public Water Works & Sewerage Pumping	HT	250		250			10
23	Large Industry	HT	250		250			DPS/Rebate
24	Power Intensive Industry	HT	250		250			DPS/Rebate
25	Mini Steel Plant	HT	250		250			DPS/Rebate
26	Railway Traction	HT	250		250			DPS/Rebate
27	Emergency Supply to CGP	HT	0	700.00	250			DPS/Rebate
28	Colony Consumption	HT	0	450.00	0			DPS/Rebate
	EHT Category							
29	General Purpose	EHT	250		700			DPS/Rebate
30	Large Industry	EHT	250		700			DPS/Rebate
31	Railway Traction	EHT	250		700			DPS/Rebate
32	Heavy Industry	EHT	250		700			DPS/Rebate
33	Power Intensive Industry	EHT	250		700			DPS/Rebate
34	Mini Steel Plant	EHT	250		700			DPS/Rebate
35	Emergency Supply to CGP	EHT	0	690.00	700			DPS/Rebate
36	Colony Consumption	EHT	0	440.00	0			DPS/Rebate

Note:

**Slab rate of energy charges for HT & EHT consumers
(Paise per unit)**

Load Factor (%)	HT	EHT
Upto 50%	495	490
> 50% = < 60%	450	445
> 60%	395	390

- (i) The reconnection charges w.e.f. 1.4.2012 shall be as follows.

Category of Consumers	New Rate Applicable
LT Single Phase Domestic Consumer	Rs.150/-
LT Single Phase other consumer	Rs.400/-
LT 3 Phase consumers	Rs.600/-
All HT & EHT consumers	Rs.3000/-

- (ii) The meter rents for FY 2012-13 is as follows.

Type of Meter	Monthly Meter Rent (Rs.)
1. Single phase electro-magnetic Kwh meter	20
2. Three phase electro-magnetic Kwh meter	40
3. Three phase electro-magnetic tri-vector meter	1000
4. Tri-vector meter for Railway Traction	1000
5. Single phase Static Kwh meter	40
6. Three Phase Static Kwh meter	150
7. Three phase Static Tri-vector meter	1000
8. Three phase Static Bi-vector meter	1000
9. LT Single phase AMR/AMI Compliant meter	50
10. LT Three phase AMR/AMI compliant meter	150

- (iii) Prospective small consumers requiring new LT single phase connection upto and including 5 KW load shall only pay a flat charge of Rs.1500/- as service connection charges towards new connection excluding security deposit as applicable as well as processing fee of Rs.25/-. The service connection charges include the cost of material and supervision charges.
- (iv) A "Tatkal Scheme" for new connection has been introduced which is applicable to LT Domestic, Agricultural and General Purpose consumers.
- (v) In case of installation with static meter/meter with provision of recording demand, the recorded demand rounded to nearest 0.5 KW shall be considered as the contract demand requiring no verification irrespective of the agreement. Therefore, for the purpose of

calculation of Monthly Minimum Fixed Charge (MMFC) for the connected load below 110 KVA, the above shall form the basis.

- (vi) The billing demand in respect of consumer with Contract Demand of less than 110 KVA should be the highest demand recorded in the meter during the Financial Year irrespective of the Connected Load, which shall require no verification.
- (vii) Three phase consumers with static meters are allowed to avail TOD rebate excluding Public Lighting and emergency supply to CGP @ 10 paise/unit for energy consumed during off peak hours. Off peak hours has been defined as **12 Midnight to 6 AM** of next day.
- (viii) Swajala Dhara consumers under Public Water Works and Sewerage Pumping Installation category shall get special 10% rebate if electricity bills are paid within due date over and above normal rebate.
- (ix) Drawal by the industries during off-peak hours upto 120% of Contract Demand without levy of any penalty has been allowed. "Off-peak hours" for the purpose of tariff is defined as from **12 Midnight to 6.00 A.M.** of the next day. The consumers who draw beyond their contract demand during hours other than the off-peak hours shall not be eligible for this benefit. If the drawal in the off peak hours exceeds 120% of the contract demand, overdrawal penalty shall be charged over and above the 120% of contract demand. When Statutory Load Regulation is imposed then restricted demand shall be treated as contract demand.
- (x) General purpose consumers with Contract Demand (CD) < 70 KVA shall be treated as LT consumers for tariff purposes irrespective of level of supply voltage. As per Regulation 76 (1) (c) of OERC Distribution (Conditions of Supply) Code, 2004 the supply for load above 5 KW upto and including 70 KVA shall be in 2-phase, 3-wires or 3-phase, 3 or 4 wires at 400 volts between phases.
- (xi) To avail the 'Take or Pay' tariff, HT and EHT consumers having contract demand more than or equal to 110 KVA can give their willingness in writing to pay for energy charge as per actual drawal or 70% load factor of the contract demand per month whichever is higher upto the validity of this tariff order. During the validity period no downward revision of the contract demand shall be allowed. Such HT and EHT consumers shall also be allowed 50 p/u special concession on total consumption. For calculation of load factor the contract demand wherever mentioned in KVA the actual power factor shall be taken into consideration. For Load factor computation allowable interruption hours shall also be taken into consideration.

(xii) Own Your Transformer – “OYT Scheme” is intended for the existing individual LT domestic, individual / Group General Purpose consumers who would like to avail single point HT supply by owning their distribution transformer. In such a case licensee would extend a special concession of 5% rebate on the total electricity bill (except electricity duty and meter rent) of the respective category apart from the normal rebate on the payment of the bill by the due date. If the payment is not made within due date no rebate, either normal or special is payable. The maintenance of the ‘OYT’ transformer shall be made by DISCOMs. For removal of doubt it is clarified that the “OYT Scheme” is not applicable to any existing or new HT/EHT consumer.

(xiii) Power factor incentive for HT & EHT consumers will be applicable above power factor of 97% and power factor penalty shall be applicable below the level of 92%.

The rate of power factor incentive shall be 1% for every 1% rise above the PF of 97% up to and including 100% on the monthly demand charges and energy charges. Similarly power factor penalty shall be

- i) 0.5% for every 1% fall from 92% upto and including 70% plus
- ii) 1% for every 1% fall below 70% upto and including 30% plus
- iii) 2% for every 1% fall below 30%

There shall not be any power factor penalty for leading power factor.

(xiv) The printout of the record of the static meter relating to MD, PF, number and period of interruption shall be supplied to the consumer wherever possible with a payment of Rs.500/- by the consumer for monthly record.

(xv) Tariff as approved shall be applicable in addition to other charges as approved in this Tariff order w.e.f. 01.04.2012. However, for the month of April, 2012 the pre-revised tariff shall be applicable if meter reading / billing date is on or before 15.04.2012. The revised tariff shall be applicable if meter reading/billing date is on 16.04.2012 or afterwards. The billing cycle as existing shall not be violated by the DISCOMs.