

The Managing Director,

Maharashtra State Electricity Distribution Company Ltd.,

5th Floor, Prakashgad, Plot No. G-9,

Bandra (East),

Mumbai – 400 051.

**Sub : Vetting of Fuel and Other Cost Adjustment (FOCA) Charges levied by
MSEDCL (erstwhile MSEB) for the months of July, 2003 to August, 2005.**

- Ref.: 1. Various FOCA submissions made by MSEDCL for the period July, 03 to August, 2005
2. SICOM's query Letter No. MERC/MSEDCL/FOCA dated 21.03.2006 to MSEDCL
3. MSEDCL replies vide Letter Nos. SE/TRC/FOCA/8430 dated 05.04.2006 and SE/TRC/9552 dated 20.4.2006

Sir,

The Commission in its Tariff Order dated 10th March 2004 for MSEB for the year 2003-04(Revised Tariffs applicable from 1st December 2003) has observed that any additional amount recovered by MSEB through the FOCA formula for increase in cost in FY 2003-04 after June 2003, if any, will be adjusted against the FOCA recoverable. Accordingly, the Commission has vetted the FOCA computations of MSEB for the period July 2003 to November 2003 based on the Tariff Order dated 10th January 2002 (Part A) and for the period December, 2003 to August, 2005 based on the Tariff Order dated 10th March, 2004 (Part B).

I am directed to forward herewith the detailed vetting and approval of the Commission on FOCA charges for the months of July, 2003 to August, 2005 and the details of month wise under recovery/over recovery (summarized in Tables A & B). The Commission has arrived at net interest of Rs.1.34 crore, Rs.1.47 crore and Rs.0.23 crore on the under recovery / over recovery for the financial years 2003-04 (from July 2003 onwards), 2004-05 and 2005-06 (up to August 2005) to be passed on to consumers by MSEDCL. The year wise under recovery / over recovery on account of FOCA and the interest as above will be adjusted while carrying out truing up during consideration of your ARR proposal for the FY 2005-06 and 2006-07.

24th May, 2006

The Commission has already issued its vetting of FAC pertaining to the month of September, 2005 vide its letter dated 24th February, 2006 and for the months of October, 2005 to February, 2006 vide its letter dated 5th May, 2006.

With this, all the FOCA & FAC matter stand disposed.

With regards,

Yours faithfully,

Sd/-
(Ms. Malini Shankar)
Secretary

- Encl : 1) Table A – July 03 to March 04
2) Table B - April 04- August 05
3) Detailed Vetting Report Part A & B
4) Annexure.

c.c. to:

Prayas Energy Group,
Amrita Clinic, Athawale Corner,
Lakdipool-Karve Road Junction,
Deccan Gymkhana, Karve Road,
Pune 411 004.

The President,
Mumbai Grahak Panchayat,
Grahak Bhavan, Sant Dynyaneshwar Marg,
Behind Cooper Hospital,
Vile Parle (West), Mumbai 400 056.

The General Secretary,
Thane Belapur Industries Association,
Plot No.P-14, MIDC,
Rabale Village, PO Ghansoli,
Navi Mumbai 400 7001.

The President,
Vidarbha Industries Association,
1st floor, Udyog Bhawan,
Civil Lines, Nagpur 440 001.

Shri A.D. Mahajan / Shri M.N. Bapat,
SICOM Ltd.,
Nirmal Building,
Nariman Point, Mumbai 400 021.

Shri Anupam Ray,
Pricewaterhouse Coopers (P) Ltd.,
252, Veer Savarkar Marg, 2nd floor,
Shivaji Park, Dadar, Mumbai 400 025.
Fax No. 5654 7800, Tel. 56691057
E-mail: anupam.ray@in.pwc.com

ANNEXURE

Table A :MSEB/ MSEDCL ,FOCA- July 03 to March 04

									(Rs. in crore)
Month	FOCA – as per MSEDCL	FOCA – as approved by the Commission	Adjust. For Excess T & D Loss as per Commission	Recoverable FOCA as per Commission	FOCA billed as per MSEDCL	Under / Over Recovery as per Commission	Cummulative Under (+) / Over (-) Recovery as per Commission	Interest @6% p.a. on the cumulative under / over recovery	Under / Over Recovery as per MSEDCL
July, 03	24.22	25.65	2.43	23.22	26.74	-3.52	-3.52	-0.02	-
Aug. 03	45.06	43.29	4.44	38.85	25.00	13.85	10.33	0.05	20
Sep. 03	37.09	37.99	0.86	37.13	48.00	-10.87	-0.55	-0.00	-11
Oct. 03	82.69	76.60	14.99	61.61	52.00	9.61	9.06	0.05	31
Nov.03	80.08	78.99	14.02	64.97	110.00	-45.03	-35.97	-0.18	-30
Dec. 03	71.54	31.51*	6.00	25.51	47.00	-21.49	-57.46	-0.29	25
Jan.04	27.81	29.09	4.41	24.68	21.00	3.68	-53.78	-0.27	6
Feb.04	-0.86	-2.45	0.57	-3.02	22.00	-25.02	-78.80	-0.39	-23
Mar.04	56.50	58.26	7.57	50.69	30.00	20.69	-58.11	-0.29	26
Sub-Total	424.13	378.93	55.30	323.63	381.74	-58.11		-1.34	44

- Based on the Tariff Order dated 10th March, 2004 being effective from 1st December, 2003

Table B: MSEB/ MSEDCL, FOCA_April 04 to August 05

(Rs. in Crore)

Month	FOCA as per MSEDCL	FOCA as approved by the Commission	Adjust. For Excess T & D Loss as per Commission	Recoverable FOCA as per Commission	FOCA billed as per MSEDCL	Under / Over Recovery as per Commission	Cummulative Under (+) / Over (-) Recovery as per Commission	Interest @6% p.a. on the cummulative under / over recovery	Under / Over Recovery as per MSEDCL
Apr.04	57.89	58.39	9.44	48.95	36.00	12.95	-45.16	-0.23	22
May.04	8.53	8.49	1.06	7.43	6.00	1.43	-43.73	-0.22	-1
Jun.04	53.76	55.89	0.00	55.89	39.00	16.89	-26.84	-0.13	15
Jul.04	99.75	93.02	11.29	81.73	66.00	15.73	-11.11	-0.06	33
Aug. 04	110.60	106.95	8.06	98.89	141.00	-42.11	-53.23	-0.27	-31
Sep. 04	46.63	46.24	2.02	44.22	33.00	11.22	-42.00	-0.21	13
Oct. 04	133.71	135.12	24.77	110.35	83.00	27.35	-14.65	-0.07	51
Nov.04	56.21	54.47	9.22	45.25	65.00	-19.75	-34.40	-0.17	-8
Dec. 04	97.31	94.45	10.35	84.10	61.00	23.10	-11.30	-0.06	36
Jan.05	64.39	69.72	10.83	58.89	64.00	-5.11	-16.41	-0.08	0
Feb.05	74.20	62.53	6.34	56.19	53.00	3.19	-13.22	-0.07	21
Mar.05	220.84	194.84	25.66	169.18	137.00	32.18	18.96	0.09	84
Sub-Total	1023.82	980.11	119.04	861.07	784.00	77.07		-1.47	235
Apr.05	231.57	214.81	28.37	186.44	146.00	40.44	59.40	0.30	85
May.05	196.88	176.51	27.66	148.85	233.00	-84.15	-24.75	-0.12	-36
Jun.05	68.12	53.29	4.43	48.86	44.00	4.86	-19.89	-0.10	24
Jul.05*	134.81	82.85	0.00	82.85	105.00	-22.15	-42.04	-0.21	13
Aug.05	25.39	56.55	2.28	54.27	30.00	24.27	-17.78	-0.09	-5
Sub-Total	656.77	584.01	62.75	521.26	558.00	-36.74		-0.23	81.00
Total	2104.72	1943.05	237.09	1705.96	1723.74	-17.78		-3.03	360.00

* Special allowance of Rs.21.78 crore not considered by the Commission

Detailed Vetting Report

MSEB/MSEDCL, FOCA Charges for the period July 2003 to August 2005

Attachment to letter No. MERC/MSEDCL/FOCA/ 1143, dated 24th May 2006

Part A

Vetting of the FOCA charges of MSEB for July 2003 to November 2003

1. The Commission issued an order in the matter of FOCA of erstwhile MSEB on 31st July 2001. The principle of the FOCA was to pass on the effect of the increased cost per unit beyond the control of the Board or the reduced cost per unit as the case may be from month to month.
2. The tariff order in respect of MSEB for 2001-02 was issued in January 2002 and the Clarificatory order and Corrigendum to the Tariff Order was issued on April 11, 2002. The Clarificatory order spelt out the station wise fuel cost, heat rate and auxiliary consumption. In the Clarificatory Order actual station wise generation cost and the power purchase cost break up for the period April, 2001 to September, 2001 and projected station wise generation cost and the power purchase cost break up for the period October, 2001 to March, 2002 has been given.
3. The Commission vide its letter dated 28th April 2003 has approved FAC charges for the period October 2001 to November 2002 based on the second Tariff Order issued in January 2002. The salient features of the said order are as below :
 - a. The Commission considered the heat rate and auxiliary consumption approved in the Tariff Order for 2001-02 for each station on monthly basis for computing the variation in cost of generation. The allowable T & D loss was considered as 26.87%
 - b. The change in generation cost and power purchase cost was computed on a per unit basis.
 - c. The incentives billed by Central Sector Generating Stations (CGS), change in the Income Tax paid / payable to the CGS on a monthly basis, operation and maintenance charges payable to the Western Region Load Despatch Centre (WRLDC), Monthly Operating Pattern Adjustments (MOPA) charges and other past adjustments billed by CGS and UI charges were considered as uncontrollable cost and were allowed under FOCA.

- d. The UI charges to be justified in future before passing on through the Z factor.
 - e. The Commission not to entertain subsequent FOCA proposals without cost audits.
 - f. MSEB to ensure that the cost changes are worked out and adjusted on a monthly basis as per the approved formula and prevailing norms thereby avoiding unnecessary delay in either recovering the increased cost or passing the benefit to the consumer due to decreased cost.
4. The Commission issued 3rd Tariff Order for the year 2003–04 on 10th March 2004 with the revised Tariffs applicable from 1st December 2003. In the said order, the Commission has observed that any additional amount recovered by MSEB through the FOCA formula for increase in cost in FY 2003-04 after June 2003, if any, will be adjusted against the FOCA recoverable.

Approach of the Commission:

The Commission has vetted the FOCA computations of MSEDCL for the period July 2003 to November 2003 based on the Tariff Order dated 10th January 2002 and has disallowed the excess cost beyond the normative parameters.

i) Variable cost of generation :

a) Actual variable cost of power generation submitted by MSEDCL for each station for all the months is certified by CA.

b) Fuel Cost –

MSEDCL has considered coal handling charges, ash handling charges, storage charges and establishment charges as part of the variable cost of generation. As the Tariff Order dated 10th January, 2002 has not specifically given the cost on account of fuel cost and other charges separately, the Commission has allowed these cost to be considered as part of the variable cost of generation for arriving at the change in cost on comparable base parameters.

MSEDCL has considered the actual transit loss as part of the cost of the fuel. The Commission in its Tariff Order dated 10th January, 2002 has not considered the Transit Loss as part of the cost of the fuel. The Honorable High Court in Appeal No.1 & 2 of 2001 in MERC Case No.10 & 11 of 2001 vide its order dated 24th February, 2003 has observed that “the percentage of the loss has to be necessarily determined by MERC on the basis of evidence before it and after hearing the parties. It is not disputed that the exercise to determine coal transit loss for the year 2000 is academic as the period is already over. Needless to say that MSEB will have the right to claim coal transit loss for subsequent years”. Accordingly, the Commission has allowed MSEDCL to claim actual transit loss incurred during the months July 03 to December 03 as per Cost Audit Certificates as part of the variable cost of generation.

MSEDCL has not clarified the Other Adjustments considered in Statement of Cost of Fuel and Other Charges at the time of submissions of FOCA proposals. Further, MSEDCL has not clarified the same despite the directives from the Commission and has informed vide its letter dated 20th April, 2006 that the same are maintained at individual power station of Maharashtra State Power Generation Company Limited (MSPGCL) and would be submitted after receipt of the same. In the absence of the clarifications from MSEDCL, the other adjustments have been deducted from the cost of the fuel considered by MSEDCL. In case MSEDCL submits these details before the process of Truing Up then depending upon the nature of the expenses i.e. whether controllable or non controllable expenses the same can be considered for truing up.

c) **Auxiliary consumption** –MSEDCL has taken auxiliary consumption at each unit at normative levels for calculation of variable cost of generation and the same is allowed. MSEDCL has not given the actual auxiliary consumption of each station.

d) **Heat Rate** - MSEDCL has worked out the variable cost of generation considering the lower of the actual heat rate or the normative heat rates of each station. The Commission has reworked the variable fuel cost based on the normative heat rates.

ii) **Cost of power purchase –**

1. Based on the Tariff Order dated 10th January, 2002 and the Clarificatory Order dated 11th April, 2002, the Commission has considered the base fixed costs and weighted average variable cost of power purchase as given below for computation of FOCA.

(Rs. Cr.)

Station	Fixed Cost / Month
Vindhyachal	29.27
Korba	15.39
Kawas	9.66
Gandhar	16.57
Income Tax – NTPC	11.67
PGC	5.92
Income Tax – PGC	0.42
Income Tax – NPC	1.13
Weighted average variable cost of power purchase	Rs.1.1681/unit

The monthly base fixed cost figures used by MSEB are different and are modified as indicated above.

2. MSEDCL has submitted the data for the power purchase certified by Chartered Accountant. The sample bills for the power purchase are not submitted.
3. The Commission has not considered UI charges in the Tariff Order. However, it has considered the same in its Vetting dated 28th April, 2003 with a observation that such charges have to be justified in the future. MSEB has been incurring substantial expenditure on account of UI charges. Considering the severe power shortage faced by MSEDCL, the substantial UI purchases are allowed under power purchase cost instead of considering under Z factor as purchase of energy through UI has become one of the source for MSEDCL.
4. **Loss in Power Purchase:** There is a substantial loss of energy in the Power Purchase as indicated below:

Month	Scheduled Energy as per WREB (MU's)	Loss in MU's	Loss as % of scheduled energy
Jul. 03	1180.52	62.53	5.03%
Aug. 03	1223.16	65.42	5.08%
Sep. 03	1245.09	67.82	5.17%
Oct. 03	1380.12	79.26	5.43%
Nov.03	1423.30	100.03	6.5%

As the grid losses are not in control of MSEDCL the same are allowed.

- iii) **Interest on working capital** – MSEDCL has not charged interest on additional working capital due to change in fuel cost and accordingly the same is not considered by the Commission.
- iv) **Adjustment factor for over recovery / under recovery** - MSEDCL has not considered any adjustment for over recovery / under recovery in the monthly FOCA statements. The Commission directs MSEDCL to pass on the over recovery or claim the under recovery as per the FOCA Order dated 31st July, 2001 in future. It has claimed an under recovery of Rs.10 crore for July, 2003 to November, 2003 without considering disallowance of FOCA towards excess T&D loss. The Commission has disallowed FOCA towards excess T&D loss for arriving at under recovery/ over recovery. The Commission has considered interest @ 6 p.a. on monthly under / over recovery amount.
- v) **Z- unpredictable and uncontrollable expenses / income earned by MSEDCL**
Adjustment for revised rate of wind energy purchase: The commission in its order dated 24th November 2003 in the matter of procurement of wind energy and wheeling has given the rates payable for the various years applicable to projects commissioned during the period 27.12.1999 to 31.03.2003 for purchase of wind energy. MSEDCL had purchased wind energy at different rates during the period 2000-01 to 2003-04 (upto September 2003) as per relevant tariff orders. MSEDCL has recalculated the additional amount recoverable for the year 2000-01 to 2003-04 (upto September 2003) and has claimed an amount of Rs.30.08 crore. as part of the other cost component of the FOCA in the month of October 2003. The detailed calculations as submitted by MSEDCL (not certified) are as below :

Particulars	2000-01	2001-02	2002-03	2003-04 (up to Sept. 03)
As per the respective tariff order				
Adhoc Purchases from Wind, Cogen. Etc. (MU)	50.00	200.00	200.00	480.00
Amount allowed in (Rs. Crs.)	12.50	61.00	61.00	152.00
Per unit as per relevant tariff orders (Rs.KWh)	2.50	3.05	3.05	3.17
Actual Purchase from wind mills (MU) (X)	48.83	76.70	207.48	106.51
Amounts recovered including recovery under FOCA provisions, in respect of electricity purchases from wind energy developers				
Purchases claimed through FOCA (MU)	NIL	55.25	187.51	106.51
Amounts claimed (Rs. crore.)(A)	NIL	16.42	57.19	33.13
Per unit rate (Rs. per kWh)	NA	2.97	3.05	3.11
Tariffs recommended as per MERC order				
Applicable Rate as per MERC order dated November 24, 2003 on purchase from wind mills (Rs)(Y)	2.91	3.02	3.13	3.24
Total amount as per new order (Rs Crs.) (X)*(Y) = (B)	14.21	23.16	64.94	34.51
Additional recoverable (B) – (A) (Rs.Crs)	14.21	6.74	7.75	1.38
Total	Rs.30.08 crores			

The Commission has allowed MSEDCL's claim of Rs.30.08 crore towards adjustment for revised rate of wind energy purchase under the Z factor for the month of October, 2003.

MSEDCL has also shown an adjustment of Rs.0.9 crore for the wind energy purchased in October, 03 under Z factor for differential rate. However, the Commission has considered the wind power purchase rate as Rs.3.24 / unit in October, 03 and hence the same is not considered under Z factor.

Part B

Vetting of the FOCA charges of MSEDCL for December 2003 to August 2005.

1. The Commission issued the Tariff Order for the year 2003 – 04 on 10th March 2004 with revised Tariffs applicable from 1st December 2003
2. The Commission vide its letter dated 24th February, 2006 has given its vetting of FAC for the month of September 2005 based on the Tariff Order dated 10th March 2004. In the said letter, the Commission has given approved variable fuel cost based on the Tariff Order dated 10th March 2004 as against the variable cost of generation indicated in the said Tariff Order.

The Commission's analysis and approach while vetting FOCA submissions for December 2003 to August 2005 is as below:

- i. Though the Tariff Order dated 10th March, 2004 is with effect from 1st December, 2003, MSEDCL has worked out the FOCA for December, 2003 based on the previous Tariff Order dated 10th January, 2002. The Commission has reworked the entire base figures by considering Tariff Order dated 10th March, 04.
- ii. **Variable cost of fuel :**
 - a) Actual variable cost of power generation for each station for all the months is certified by CA.
 - b) MSEDCL has not submitted the FOCA Submissions in the Standard Formats as prescribed by the Commission vide its letter dated 22nd August, 2005 for the period April, 2005 to August, 2005
 - c) **Fuel Cost** - MSEDCL has included the costs on account of coal handling charges, ash handling charges, storage charges, establishment charges, maintenance charges and adjustments on account of 1% inventory shortages, other adjustments (not specified) and transit loss component in the variable cost of generation for computation of the FOCA. As per the Tariff Order dated 10th March, 2004, any change in the fuel prices and power purchase cost vis-à-vis the cost considered by the Commission is to be recovered/ refunded through the FOCA mechanism. The Commission vide its letter dated 24th February, 2006 has given approved variable fuel cost to be considered for

FAC calculations as against the variable cost of generation indicated in the Tariff Order. **Accordingly, the Commission has considered the variable fuel cost as indicated vide its letter dated 24th February, 2006 as the base cost for arriving at the change in fuel cost.** As the costs like coal handling charges, ash handling charges, storage charges, establishment charges, maintenance charges and adjustments considered by the MSEB as part of variable cost of generation are not on account of change in the fuel prices, the same have not been considered as part of the actual variable cost of fuel. The principle of the FOCA was to pass on the effect of the increased cost per unit beyond the control of the Board or the reduced cost per unit as the case may be from month to month. As the above cost are not uncontrollable costs, the same are also not considered as part of the Z factor of the FOCA formula.

- d) **Auxiliary consumption** –MSEDCL has taken auxiliary consumption at each unit at normative levels for calculation of variable cost of generation and the same is allowed. MSEDCL has not given the actual auxiliary consumption of each station.
- e) **Heat Rate** - MSEDCL has worked out the variable cost of generation considering the lower of the actual heat rate or the normative heat rates of each station. The Commission has reworked the variable fuel cost based on the normative heat rate.
- f) **Transit Loss** – MSEDCL has not considered the excess fuel cost on account of excess Transit Loss. The Commission has worked out the variable fuel cost considering normative transit loss as approved in the Tariff Order for FY 2003-04. The adjustment to transit loss given by MSEDCL separately has been added to the Transit Loss amount.

iii. **Cost of power purchase –**

- a. MSEB vide its letter dated 15th April, 2004 had informed the Commission about the power purchase for the year 2004-2005 from the suppliers NVVN, PTC, TPC and Adani through competitive bidding process through tenders to reduce impact of load shedding.
- b. MSEB had also informed the Commission about purchase of power from NTPC Vidyut Vyapar Nigam Ltd. for 100 MW, PTC for 300 MW and Adani

40 MW on round the clock basis from 1st April, 2004 to 15th June, 2004 vide its letter dated 11th March, 2004.

- c. On the matter of power purchase expenses for the FY 2004-05, the Commission vide its letter dated 1st September, 2004 has observed that in order to make any demand beyond the approved Tariff Order base line, if MSEB is required to purchase power over and above the approved quantum, specific approval of the Commission is not required so long as it meet the merit order norms and the increase in quantum and expenses of such power purchase is proportionate i.e. if the average per unit cost is not exceeded. Further, to the extent that there is an increase in per unit cost associated with increased power purchase, the difference cannot be approved in isolation and other aspects needs to be examined as a part and parcel of ARR and Tariff determination and not in the FOCA mechanism. MSEB vide its letter dated 16th March, 2005 has informed that considering net MSEB generation and assistance from Central sector, there is a huge gap in the supply of power and heavy quantum of load shedding has to be done. (2500–3000 MW) and requested the Commission to permit MSEB to purchase power from Traders beyond the prescribed ceiling and allow MSEB to recover the excess cost through FOCA. As the Commission cannot allow such extra purchase of energy without approval of the long term power procurement plan it had directed MSEDCL to submit the long term power procurement plan along with ARR and Tariff Petition.

MSEDCL has now submitted its ARR Petition for FY 2006-07 alongwith truing up for FY 2004-05 and FY 2005-06. In the meantime, **the commission has considered the extra purchase of energy in the FOCA calculations in view of shortage of supply of energy faced by MSEDCL to meet the demand.**

d. Base Fixed Cost & Variable Cost of Power Purchase:

Based on the Tariff Order dated 10th March, 2004, the Commission has considered the base fixed costs and weighted average variable cost of power purchase as given below for computation of FOCA.

(Rs. Cr.)

Station	Fixed Cost / Month
Vindhyachal I & II	22.40
Korba	11.14
Kawas	9.76
Gandhar	18.44
Power Grid Corporation	15.00
Income Tax – NTPC	7.92
Income Tax – NPC	1.40
Weighted average variable cost of power purchase	Rs.1.2973/unit

The monthly base fixed cost figures used by MSEB are different and are modified as indicated above.

- e. MSEDCL has submitted the data for the power purchase certified by Chartered Accountant. **The sample bills for the power purchase are not submitted.**
- f. **MSEDCL has not considered cost of power purchase from Sardar Sarovar for the months of August, 2004 to August, 2005 in the FOCA calculations and hence the Commission has also not considered the same.**
- g. The Commission in its Tariff Order dated 10th March 2004 has observed that “a certain level of UI charges are unavoidable due to grid requirements and the demand – supply situation at that point in time. There is an opportunity for the MSEB to purchase power at times of high frequency at very cheap rates and MSEB should actively explore this option to reduce its cost. MSEB on the other hand has been incurring substantial expenditure on account of UI charges which cannot be allowed in toto. Hence, the Commission has allowed UI charges at a normative level of 1% of total energy input requirement”. However, it has been observed that MSEDCL has purchased substantial power through UI. **Considering the severe power shortage faced by MSEDCL, the substantial UI purchase over the normative level of 1% of total energy input requirement considered in the tariff order dated 10th March 2004 are allowed under power purchase cost instead of considering under Z factor.**

- h. **Loss of energy in the Power Purchase:** There is a substantial loss of energy in the Power Purchase being at 4.8 % of the scheduled energy. As the grid losses are not in control of MSEDCL the same are allowed.
- iv. **Interest on working capital** – MSEDCL has not charged interest on additional working capital due to change in fuel cost and accordingly the same is not considered by the Commission.
- v. **Adjustment factor for over recovery / under recovery** - MSEDCL has not considered any adjustment for over recovery / under recovery on month to month basis. It has claimed an under recovery of Rs.350 crore for December, 2003 to August, 2005 without considering disallowance of FOCA towards excess T&D loss. The Commission has arrived at under recovery / over recovery after considering disallowance towards excess T&D loss. The Commission has considered interest @ 6 p.a. on monthly under / over recovery amount.
- vi. **Z – unpredictable and uncontrollable expenses / income earned by MSEDCL**
The expenses claimed by MSEDCL are Tax on Sale of Electricity, Entry Tax, Special Allowance, Additional DA and other adjustments, details of which are as given below :

a. **Tax On Sale of Electricity (TOSE) :**

The Commission issued order dated 24th May, 2005 in the matter of TOSE to Industrial and Commercial consumers by MSEB. As per the alternative (a) of the Order, TOSE can be recovered through the prevailing FOCA Formula until such time as the new Tariff Regulations are notified and in respect of the period prior to such notification.

MSEDCL has worked out approx. amount of TOSE at Rs.107.74 crore and has charged the same in three installments of Rs.35 crore, Rs.35 crore and Rs.37.74 crore in the FOCA of the month April, 2005, May, 2005 and June, 2005 respectively. Further, an amount of Rs.7.72 crore each is recovered through FOCA in the month of July, 2005 and August, 2005. **MSEDCL has**

not given actual working of an amount of Rs.107.74 crore and the TOSE amount for July, 05 and August, 05 are not certified.

The Commission has considered the TOSE of Rs.107.74 crore as estimated by MSEDCL and Rs.7.72 crore each in the FOCA of July, 05 and August, 05. The difference between actual and estimated TOSE of Rs.107.74 crore, if any to be adjusted in future FAC submissions.

b. Entry Tax of Rs.3.19 Crore in June, 2005:

MSEDCL has considered an amount of Rs.3.19 crore as part of the Other Costs. This amount has been deposited with the Tax authorities as an entry tax on petroleum products w.e.f. 1.10.2002 on Inter State Purchases by MSEB under Maharashtra Tax on Entry of Goods to Local Area Act. 2002. **However, based on the documentary submissions made by MSEDCL, it is clear that out of the said amount an amount of Rs.0.41 crore and Rs.0.28 crore have been adjusted in FOCA of Khaparkheda and Kordi stations in the month of April, 2004 without the prior permission of the Commission. However, MSEB letter dated 19th August, 2004 forwarding the FOCA submissions for April 2004 confirms that there are no new factors envisaged in the computations and hence prior approval of the Commission is not required.**

Thus there are contradictory submissions made by MSEDCL about the Entry Tax. The Commission has considered an amount of Rs.2.50 crore (Rs.3.19 crore - Rs.0.69 crore already claimed in FOCA for April, 2004) in June 2005 as against the claim of Rs.3.19 crore by MSEDCL in June, 2005.

c. Special Allowance of Rs.21.78 crore in FOCA of July, 2005:

MSEDCL has considered an amount of Rs.21.78 crore towards Special Allowance in the FOCA for July, 2005 and has charged through the FOCA to the consumers in November, 2005. MSEDCL has submitted the FOCA details for July, 2005 vide its letter dated 10th March, 2006 to the Commission. **Thus, Special allowance was passed through the FOCA without the approval of**

the Commission. As per the FOCA Order dated 31st July, 2001, MSEDCL was required to take Commission's approval for passing the Special Allowance through FOCA.

MSEDCL had not given detailed working of the Special Allowance along with the FOCA submissions. The Commission's Consultant vide their letter dated 21st March, 2006 sought clarifications from MSEDCL about Special Allowance. As per the submissions made by MSEDCL vide its letter dated 5th April, 2005, the Special Allowance is related to the employees and officers of the MSPGCL, MSETCL & MSEDCL working in Naxalite Affected Areas declared by the Government and in terms of the decision of the Government to give special allowance to such employees @15% w.e.f. the date of the decision i.e.6.8.2002.

However, MSEDCL has not submitted detailed calculations of the Special Allowance amount and it is an estimated amount (not certified). **As MSEDCL had not sought specific approval of the Commission for inclusion of Special Allowance in FOCA in its submissions and the detailed calculations are not available, the Commission has not considered the same in FOCA.**

d. Additional Dearness Allowance of Rs.2.6 crore:

The Commission vide its letter dated 22nd September, 2004 has allowed MSEB to pass through the additional expenses on account of increase in DA under the Z factor of the FOCA formula as computed by MSEB, but excluding any employees who are not covered within the scope of Clause 2 of the settlement entered into with the Unions on 16th November , 2000, staggered over 3 months. MSEB has passed an amount of Rs. 54.47 crore each through FOCA in the month of June, July and August 2004, aggregating Rs. 163.41 crore. Further, the Commission vide its letter dated 20th September, 2005 had directed MSEB Holding Company Ltd. to refund an extra amount of Rs.2.6 crore recovered from the Consumers on account of additional DA and PF

payment to employees in subsequent month FOCA/FAC. Accordingly, MSEDCL has reduced the FOCA amount of July, 2005 by Rs.2.6 crore.

e. Other Adjustments:

MSEDCL has considered Other Adjustments in the Statement Cost of Fuel and Other Charges for arriving at variable cost of generation. The Commission has taken base variable fuel cost as per the Commissions letter dated 24th February, 2006 which excludes these adjustment. The Consultant of the Commission had requested MSEDCL vide their letter dated 21st March, 2006 to give details of all of these adjustment **which are not received**. Based on the available information, non controllable costs like Umpire & Post Umpire Settlement for claim relating to the period 1.4.95 to 30.9.01 which were securitised in 2003-04 for Khaparkheda Station of Rs.4.79 crore each in May 2005, June, 2005, July, 2005 and August, 2005. are considered as part of the Z factor.

f. Annual Limit on FOCA:

As per the FOCA order dated 31st July, 2001, there is an annual limit of 10% of the average cost of supply or the consumer price index (CPI), for the same period, whichever is less, on the FOCA per unit. The Commission de linked the cap from Consumer Price Index for Tata Power vide its letter dated 4th April, 2005 and for Reliance Energy vide its letter dated 13th April, 2005. The cap for MSEDCL comes to 28.30 paise/unit (based on 10% of the average cost of supply). Though MSEB has breached the cap in the month of August, 2004, Oct. 2004 and March, 2005 on annual basis FOCA rate is within the cap (28.30 paise /unit) for the year 2004-05. **However, MSEDCL has breached the cap of 28.3 paise / unit in the months of April 05, May 05 and July 05 in the year 2005-06.**

ANNEXURE

FOCA calculations for the month of July 2003 (includes transit loss)	
Summary - Total FOCA to be charged	To be levied over
	one month
FOCA (Rs. cr.)	25.65
Cost of generation	42.21
Fixed Cost of power purchase	4.23
Variable Cost of power purchase	12.62
Other costs of power purchase	(33.40)
Energy Input	4,845
Generation	3,443
Power Purchase	1,402
T&D loss target	26.87%
FOCA liable sale	3,543
FOCA rate (metered sale) paise/kWh	7.24
FOCA rate (metered sale) paise/kWh after rounding off	7.00
FOCA rate (unmetered sale) Rs/hp/month	
- LT-Ag (1250 hours per year)	6.00
- HT-Ag (3600 hours per annum)	16.00
- Water Works, Gram Panchayat (9.13 hours per day)	15.00
- Water Works, 'C' Class Municipals (11.32 hours per day)	19.00
- Powerlooms	13.00

Annexure 1 : Change in cost of generation								
Change in cost of generation for the period July 2003								
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal
Gross Generation (MU)	490	38	282	489	326	468	1,088	3,180
Net Generation (MU)	448	34	254	445	294	422	1,005	2,902
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.73%
Actual Gen. Cost (Rs Cr)	44.18	4.35	29.41	64.44	39.91	59.90	80.41	322.58
Actual Heat Input	1,336,832	123,639	804,939	1,310,730	867,127	1,445,694	2,706,706	8,595,667
Actual Fuel Cost (Rs/MkCal)	330.48	351.64	365.35	491.60	460.23	414.33	297.06	375.29
Actual Variable Cost (Rs/kWh)	0.9863	1.2696	1.1600	1.4469	1.3571	1.4180	0.8001	
Base Variable Cost (Rs/kWh)	0.9351	1.2241	0.9294	1.2849	1.2241	1.0284	0.7361	
Change in Costs (Rs Cr)	2.29	0.16	5.85	7.22	3.91	16.46	6.44	42.32
Actual Heat Rate (kCal/kWh)	2,731	3,260	2,858	2,678	2,663	3,087	2,489	2,703
Norm - Heat Rate (kCal/kWh)	2,753	3,232	2,763	2,690	2,676	3,026	2,527	2,704
Adjustment for Heat rate	0.35	(0.04)	(0.97)	0.28	0.20	(1.18)	1.23	(0.13)
Net Change in Gen Cost	2.65	0.12	4.87	7.49	4.11	15.27	7.67	42.18
Change in cost of generation for Gas Station for the period July 2003								
	Jul-03							
Gross Generation (MU)	331							
Actual Variable Cost (Rs/kWh)	0.6566							
Base Variable Cost (Rs/kWh)	0.6553							
Change in Costs (Rs Cr)	0.04							
Actual Heat Rate (kCal/kWh)	1,968							
Norm - Heat Rate (kCal/kWh)	1,966							
Adjustment for Heat rate	(0.02)							
Net Change in Gen Cost	0.03							
Change in Total Cost of Generation								
	Jul-03							
Thermal	42.18							
Gas	0.03							
Total	42.21							

Annexure 2 : Change in Costs of Power Purchase

Change in Variable cost of power purchase for the period July 2003

	Total	Jul-03
Net Units Purchased (MU)	1,402	1,402
Actual Variable Cost (Rs. Cr.)	176.36	176.36
Actual Variable Cost (Rs/kWh)	1.2581	1.2581
Wt. Avg. Base Variable Cost (Rs/kWh)	1.1681	1.1681
Change in Cost (Rs/kWh)	0.0900	0.0900
Change in Cost (Rs Cr.)	12.62	12.62
Total Change in Variable Cost (Rs Cr.)	12.62	12.62

Change in Fixed cost of power purchase for the period July 2003

	Total	Jul-03
Actual Capacity Charges	81.04	81.04
Approved Capacity Charges	76.81	76.81
Total Change in Fixed Cost	4.23	4.23

Annexure 3 : Change in Other Costs of Power Purchase

Description	Jul-03
Incentive	0.52
Income Tax	
- NTPC	(38.11)
- NPC	(1.13)
- PGCIL	(0.42)
- ER power	0.36
PGCIL - other trans. chgs & O&M chgs	4.15
Other adjustments	(0.54)
UI charges & Reactive energy	0.06
Revision in previous months	1.70
Total	(33.40)

Change in Fixed Cost of Power Purchase (July'03)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	11.06	15.39	(4.33)
Vindhyachal I&II	24.91	29.27	(4.36)
Gandhar	18.47	16.57	1.90
Kawas	9.60	9.66	(0.06)
NR Import	-	-	-
ER Import	2.95	-	2.95
SR Import	-	-	-
Power Grid Corp.	14.04	5.92	8.12
Total	81.04	76.81	4.23

Change in Variable cost of Power purchase (July'03)

	Actual		
	Var. Cost	Power purch	Var. cost
	(Rs. cr.)	(MUs)	(Rs./kWh)
Korba	19.25	1,180.52	1.2581
Vindhyachal I&II	31.92		
Gandhar	9.50		
Kawas	15.12		
Kakrapar	48.53		
PTC	11.84		
NR Import	-		
ER Import	3.39		
SR Import	-		
Unscheduled Int.*	16.87	75.61	
Tarapur	9.50	103.31	
Tata Electric Co.	2.56	10.25	
Dodson	0.32	1.14	
Ad-hoc purchase	7.56	30.97	
Total	176.36	1,401.81	

FOCA calculations for the month of August 2003 (includes transit loss)	
Summary - Total FOCA to be charged	be levied over
	one month
FOCA (Rs. cr.)	43.29
Cost of generation	20.62
Fixed Cost of power purchase	4.50
Variable Cost of power purchase	17.90
Other costs	0.27
Energy Input	4,963
Generation	3,360
Power Purchase	1,603
T&D loss target	26.87%
FOCA liable sale	3,630
FOCA rate (metered sale) paise/kWh	11.93
FOCA rate (metered sale) paise/kWh after rounding off	12.00
FOCA rate (unmetered sale) Rs/hp/month	
- LT-Ag (1250 hours per year)	9.00
- HT-Ag (3600 hours per annum)	27.00
- Water Works, Gram Panchayat (9.13 hours per day)	25.00
- Water Works, 'C' Class Municipals (11.32 hours per day)	31.00
- Powerlooms	22.00

Change in cost of generation for the period August 2003								
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal
Gross Generation (MU)	436	1	318	494	329	444	1,059	3,082
Net Generation (MU)	399	1	287	450	297	401	978	2,812
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.74%
Actual Gen. Cost (Rs Cr)	37.40	0.43	31.00	55.51	40.19	46.54	77.71	288.79
Actual Heat Input	1,140,669	4,714	878,801	1,304,497	871,053	1,343,732	2,682,321	8,225,787
Actual Fuel Cost (Rs/MkCal)	327.90	917.90	352.75	425.55	461.45	346.36	289.71	351.08
Actual Variable Cost (Rs/kWh)	0.9383	3.4977	1.0817	1.2343	1.3529	1.1619	0.7943	
Base Variable Cost (Rs/kWh)	0.9351	1.2241	0.9294	1.2849	1.2241	1.0284	0.7361	
Change in Costs (Rs Cr)	0.13	0.28	4.37	(2.27)	3.83	5.35	5.70	17.37
Actual Heat Rate (kCal/kWh)	2,618	3,441	2,760	2,640	2,647	3,026	2,533	2,669
Norm - Heat Rate (kCal/kWh)	2,753	3,232	2,763	2,690	2,676	3,026	2,527	2,704
Adjustment for Heat rate	1.92	(0.03)	0.03	1.06	0.43	0.00	(0.20)	3.23
Net Change in Gen Cost	2.04	0.25	4.40	(1.21)	4.26	5.35	5.50	20.60
Change in cost of generation for Gas Station for the period August 2003								
	Aug-03							
Gross Generation (MU)	311							
Net Generation (MU)	304							
Aux. Consumption	2.40%							
Actual Variable Cost (Rs/kWh)	0.6921							
Base Variable Cost (Rs/kWh)	0.6553							
Change in Costs (Rs Cr)	1.12							
Actual Heat Rate (kCal/kWh)	2,074							
Norm - Heat Rate (kCal/kWh)	1,966							
Adjustment for Heat rate	(1.09)							
Net Change in Gen Cost	0.03							
Change in Total Cost of Generation								
	Aug-03							
Thermal	20.60							
Gas	0.03							
Total	20.62							

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period August 2003**

	Total	Aug-03
Net Units Purchased (MU)	1,603	1,603
Actual Variable Cost (Rs. Cr.)	205.14	205.14
Actual Variable Cost (Rs/kWh)	1.2798	1.2798
Wt. Avg. Base Variable Cost (Rs/kWh)	1.1681	1.1681
Change in Cost (Rs/kWh)	0.1117	0.1117
Change in Cost (Rs Cr.)	17.90	17.90
Total Change in Variable Cost (Rs Cr.)	17.90	17.90

Change in Fixed cost of power purchase for the period August 2003

	Total	Aug-03
Actual Capacity Charges	81.31	81.31
Approved Capacity Charges	76.81	76.81
Total Change in Fixed Cost	4.50	4.50

Annexure 3 : Change in Other Costs of Power Purchase

Description	Aug-03
Incentive	0.53
Income Tax	
- NTPC	(11.67)
- NPC	(1.13)
- PGCIL	(0.42)
- ER power	-
PGCIL - other trans. chgs & O&M chgs	0.80
Other adjustments	0.37
UI charges & Reactive energy	0.07
Revision in previous months	11.71
Total	0.27

Change in Fixed Cost of Power Purchase (Aug '03)

	Capacity charges		FOCA
	Actual	Approved	
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	11.06	15.39	(4.33)
Vindhyachal I&II	26.14	29.27	(3.13)
Gandhar	18.47	16.57	1.90
Kawas	9.60	9.66	(0.06)
NR Import	-	-	-
ER Import	3.68	-	3.68
SR Import	-	-	-
Power Grid Corp.	12.35	5.92	6.43
Total	81.31	76.81	4.50

Change in Variable cost of Power purchase (Aug'03)

	Actual		Var. cost	
	Var. Cost	Power purch		
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	18.49	1,223.16	1.2798	
Vindhyachal I&II	36.87			
Gandhar	9.56			
Kawas	16.38			
Kakrapar	34.14			
PTC	19.20			
NR Import	-			
ER Import	4.71			
SR Import	-			
Unscheduled Int.*	33.77			188.39
Tarapur	9.72			105.67
Tata Electric Co.	9.55			38.22
Dodson	2.54			9.24
Ad-hoc purchase	10.21			38.29
Total	205.14			1,602.96

FOCA calculations for the month of September 2003 (includes transit loss)		
	Total	FOCA to be levied over one month
Summary - Total FOCA to be charged		
FOCA (Rs. cr.)	37.99	37.99
Cost of generation	23.58	23.58
Fixed Cost of power purchase	2.89	2.89
Variable Cost of power purchase	23.56	23.56
Other costs	(12.04)	(12.04)
Energy Input	5,219	5,219
Generation	3,700	3,700
Power Purchase	1,519	1,519
T&D loss target	26.87%	26.87%
FOCA liable sale	3,817	3,817
FOCA rate (metered sale) paise/kWh		9.95
FOCA rate (metered sale) paise/kWh after rounding off		10.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (1250 hours per year)		8.00
- HT-Ag (3600 hours per annum)		22.00
- Water Works, Gram Panchayat (9.13 hours per day)		21.00
- Water Works, 'C' Class Municipals (11.32 hours per day)		26.00
- Powerlooms		18.00

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period September 2003									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	474	30	309	487	348	512	1,220	3,381	
Net Generation (MU)	434	27	279	443	314	462	1,128	3,086	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.72%	
Actual Variable Cost (Rs/kWh)	1.0078	1.3400	1.1026	1.2408	1.2750	1.1342	0.7948		
Base Variable Cost (Rs/kWh)	0.9351	1.2241	0.9294	1.2849	1.2241	1.0284	0.7361		
Change in Costs (Rs Cr)	3.15	0.32	4.82	(1.95)	1.60	4.88	6.62	19.44	
Actual Heat Rate (kCal/kWh)	2,602	3,267	2,780	2,665	2,635	3,006	2,518	2,668	
Norm - Heat Rate (kCal/kWh)	2,753	3,232	2,763	2,690	2,676	3,026	2,527	2,704	
Adjustment for Heat rate	2.52	(0.04)	(0.19)	0.52	0.62	0.35	0.33	4.11	
Net Change in Gen Cost	5.67	0.28	4.64	(1.44)	2.22	5.23	6.95	23.56	
Change in cost of generation for Gas Station for the period September 2003									
	Sep-03								
Gross Generation (MU)	326								
Net Generation (MU)	318								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6532								
Base Variable Cost (Rs/kWh)	0.6553								
Change in Costs (Rs Cr)	(0.07)								
Actual Heat Rate (kCal/kWh)	1,957								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	0.09								
Net Change in Gen Cost	0.03								
Change in Total Cost of Generation									
	Sep-03								
Thermal	23.56								
Gas	0.03								
Total	23.58								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period September 2003**

	Total	Sep-03
Net Units Purchased (MU)	1,519	1,519
Actual Variable Cost (Rs. Cr.)	201.01	201.01
Actual Variable Cost (Rs/kWh)	1.3232	1.3232
Wt. Avg. Base Variable Cost (Rs/kWh)	1.1681	1.1681
Change in Cost (Rs/kWh)	0.1551	0.1551
Change in Cost (Rs Cr.)	23.56	23.56
Total Change in Variable Cost (Rs Cr.)	23.56	23.56

Change in Fixed cost of power purchase for the period September 2003

	Total	Sep-03
Actual Capacity Charges	79.70	79.70
Approved Capacity Charges	76.81	76.81
Total Change in Fixed Cost	2.89	2.89

Annexure 3 : Change in Other Costs of Power Purchase

Description	Sep-03
Incentive	0.22
Income Tax	
- NTPC	(11.67)
- NPC	(1.13)
- PGCIL	(0.42)
- ER power	-
PGCIL - other trans. chgs & O&M chgs	0.81
Other adjustments	0.17
UI charges & Reactive energy	(0.03)
Revision in previous months	-
Total	(12.04)

Change in Fixed Cost of Power Purchase (Sep '03)

	Capacity charges		
	Actual (Rs cr)	Approved (Rs cr)	FOCA (Rs cr)
Korba	10.41	15.39	(4.98)
Vindhyachal I&II	25.28	29.27	(3.99)
Gandhar	18.47	16.57	1.90
Kawas	9.60	9.66	(0.06)
NR Import	-	-	-
ER Import	3.58	-	3.58
SR Import	-	-	-
Power Grid Corp.	12.35	5.92	6.43
Total	79.70	76.81	2.89

Change in Variable cost of Power purchase (Sep'03)

	Actual			
	Var. Cost (Rs. cr.)	Power purch (MUs)	Var. cost (Rs./kWh)	
Korba	18.15	1,245.09	1.3232	
Vindhyachal I&II	33.01			
Gandhar	9.20			
Kawas	26.17			
Kakrapar	21.05			
PTC	43.75			
NR Import	-			
ER Import	4.26			
SR Import	-			
Unscheduled Int.*	22.65			117.98
Tarapur	9.54			103.74
Tata Electric Co.	4.70			18.79
Dodson	2.18			7.94
Ad-hoc purchase	6.34	25.55		
Total	201.01	1,519.08		

FOCA calculations for the month of October 2003 (includes transit loss)		
	Total	FOCA to be levied over one month
Summary - Total FOCA to be charged		
FOCA (Rs. cr.)	76.60	76.60
Cost of generation	30.56	30.56
Fixed Cost of power purchase	4.32	4.32
Variable Cost of power purchase	36.38	36.38
Other costs of power purchase	(24.74)	(24.74)
Adjustment for FY 2000-01, 2001-02, 2002-03 & 2003-04 (upto Sept. 03) due to revised rate fro Wind Energy Purchase as per MERC Order 24th No. 2003	30.08	30.08
Energy Input	5,618	5,618
Generation	4,039	4,039
Power Purchase	1,579	1,579
T&D loss target	26.87%	26.87%
FOCA liable sale	4,108	4,108
FOCA rate (metered sale) paise/kWh		18.64
FOCA rate (metered sale) paise/kWh after rounding off		19.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (1250 hours per year)		14.00
- HT-Ag (3600 hours per annum)		42.00
- Powerlooms (8 hours per day)		34.00
- Water Works, Gram Panchayat (9.13 hours per day)		39.00
- Water Works, 'C' Class Municipals (11.32 hours per day)		48.00

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period October 2003									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	461	37	291	473	349	567	1,525	3,704	
Net Generation (MU)	422	33	262	430	315	511	1,409	3,384	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.64%	
Actual Variable Cost (Rs/kWh)	0.9646	1.2608	1.1060	1.4444	1.2725	1.2099	0.7646		
Base Variable Cost (Rs/kWh)	0.9351	1.2241	0.9294	1.2849	1.2241	1.0284	0.7361		
Change in Costs (Rs Cr)	1.25	0.12	4.63	6.86	1.52	9.28	4.01	27.68	
Actual Heat Rate (kCal/kWh)	2,600	3,264	2,786	2,665	2,675	3,024	2,525	2,671	
Norm - Heat Rate (kCal/kWh)	2,753	3,232	2,763	2,690	2,676	3,026	2,527	2,704	
Adjustment for Heat rate	2.39	(0.04)	(0.24)	0.59	0.01	0.03	0.07	2.81	
Net Change in Gen Cost	3.64	0.08	4.39	7.45	1.53	9.32	4.09	30.49	
Change in cost of generation for Gas Station for the period October 2003									
	Oct-03								
Gross Generation (MU)	325								
Net Generation (MU)	317								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6693								
Base Variable Cost (Rs/kWh)	0.6553								
Change in Costs (Rs Cr)	0.44								
Actual Heat Rate (kCal/kWh)	2,001								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	(0.38)								
Net Change in Gen Cost	0.07								
Change in Total Cost of Generation									
	Oct-03								
Thermal	30.49								
Gas	0.07								
Total	30.56								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period October 2003**

	Total	Oct-03
Net Units Purchased (MU)	1,579	1,579
Actual Variable Cost (Rs. Cr.)	220.82	220.82
Actual Variable Cost (Rs/kWh)	1.3985	1.3985
Wt. Avg. Base Variable Cost (Rs/kWh)	1.1681	1.1681
Change in Cost (Rs/kWh)	0.2304	0.2304
Change in Cost (Rs Cr.)	36.38	36.38
Total Change in Variable Cost (Rs Cr.)	36.38	36.38

Change in Fixed cost of power purchase for October 2003

	Total	Oct-03
Actual Capacity Charges	81.13	81.13
Approved Capacity Charges	76.81	76.81
Total Change in Fixed Cost	4.32	4.32

Annexure 3 : Change in Other Costs of Power Purchase

Description	Oct-03
Incentive	(0.28)
Income Tax	
- NTPC	(11.42)
- NPC	(1.13)
- PGCIL	(0.42)
- ER power	-
-Advance tax for 2003-04	-
PGCIL - other trans. chgs & O&M chgs	0.92
Other adjustments	(11.92)
UI charges & Reactive energy	(0.49)
Total	(24.74)

Change in Fixed Cost of Power Purchase (October 03)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.41	15.39	(4.98)
Vindhyachal I&II	26.68	29.27	(2.59)
Gandhar	18.47	16.57	1.90
Kawas	9.60	9.66	(0.06)
NR Import	-	-	-
ER Import	3.62	-	3.62
SR Import	-	-	-
Power Grid Corp.	12.35	5.92	6.43
Total	81.13	76.81	4.32

Change in Variable cost of Power purchase (October 03)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	16.97	1,380.12	1.3985	
Vindhyachal I&II	35.76			
Gandhar	9.10			
Kawas	36.72			
Kakrapar	35.52			
PTC	41.05			
NVVN	14.87			
NR Import	-			
ER Import	4.93			
SR Import	-			
Unscheduled Int.*	11.65			77.39
Tarapur	8.81			95.82
Tata Electric Co.	1.95			7.78
Dodson	0.44	1.62		
Ad-hoc purchase	3.04	16.26		
Total	220.82	1,578.99		

FOCA calculations for the month of November 2003 (includes transit loss)		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	78.99	78.99
Cost of generation	32.22	32.22
Fixed Cost of power purchase	4.08	4.08
Variable Cost of power purchase	43.23	43.23
Other costs of power purchase	(0.53)	(0.53)
Energy Input	5,713	5,713
Generation	4,092	4,092
Power Purchase	1,621	1,621
T&D loss target	26.87%	26.87%
FOCA liable sale	4,178	4,178
FOCA rate (metered sale) paise/kWh		18.91
FOCA rate (metered sale) paise/kWh after rounding off		19.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (1250 hours per year)		15.00
- HT-Ag (3600 hours per annum)		42.00
- Water Works, Gram Panchayat (9.13 hours per day)		39.00
- Water Works, 'C' Class Municipals (11.32 hours per day)		49.00
- Powerlooms		34.00

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period November 2003									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	522	39	315	346	386	559	1,275	3,443	
Net Generation (MU)	478	35	284	315	349	504	1,178	3,143	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.71%	
Actual Gen. Cost (Rs Cr)	44.65	4.35	32.93	41.19	44.69	64.38	94.18	326.35	
Actual Heat Input (MkCal)	1,376,098	127,128	875,442	924,662	1,023,656	1,691,600	3,208,863	9,227,449	
Actual Fuel Cost (Rs/MkCal)	324.44	342.03	376.13	445.43	436.54	380.59	293.49	353.68	
Actual Variable Cost (Rs/kWh)	0.9349	1.2360	1.1598	1.3081	1.2808	1.2765	0.7994		
Base Variable Cost (Rs/kWh)	0.9351	1.2241	0.9294	1.2849	1.2241	1.0284	0.7361		
Change in Costs (Rs Cr)	(0.01)	0.04	6.54	0.73	1.98	12.51	7.46	29.25	
Actual Heat Rate (kCal/kWh)	2,637	3,263	2,775	2,672	2,649	3,025	2,517	2,680	
Norm - Heat Rate (kCal/kWh)	2,753	3,232	2,763	2,690	2,676	3,026	2,527	2,704	
Adjustment for Heat rate	1.96	(0.04)	(0.14)	0.27	0.45	0.02	0.38	2.90	
Net Change in Gen Cost	1.95	0.00	6.40	1.00	2.43	12.53	7.84	32.15	
Change in cost of generation for Gas Station for the period November 2003									
	Nov-03								
Gross Generation (MU)	338								
Net Generation (MU)	330								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6626								
Base Variable Cost (Rs/kWh)	0.6553								
Change in Costs (Rs Cr)	0.24								
Actual Heat Rate (kCal/kWh)	1,982								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	(0.17)								
Net Change in Gen Cost	0.07								
Change in Total Cost of Generation									
	Nov-03								
Thermal	32.15								
Gas	0.07								
Total	32.22								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period November 2003**

	Total	Nov-03
Net Units Purchased (MU)	1,621	1,621
Actual Variable Cost (Rs. Cr.)	232.58	232.58
Actual Variable Cost (Rs/kWh)	1.4347	1.4347
Wt. Avg. Base Variable Cost (Rs/kWh)	1.1681	1.1681
Change in Cost (Rs/kWh)	0.2666	0.2666
Change in Cost (Rs Cr.)	43.23	43.23
Total Change in Variable Cost (Rs Cr.)	43.23	43.23

Change in Fixed cost of power purchase for November 2003

	Total	Nov-03
Actual Capacity Charges	80.89	80.89
Approved Capacity Charges	76.81	76.81
Total Change in Fixed Cost	4.08	4.08

Annexure 3 : Change in Other Costs of Power Purchase

Description	Nov-03
Incentive	1.23
Income Tax	
- NTPC	(11.67)
- NPC	(1.13)
- PGCIL	(0.42)
- ER power	-
-Advance tax for 2003-04	0.76
PGCIL - other trans. chgs & O&M chgs	(4.89)
Other adjustments	16.62
UI charges & Reactive energy	(1.04)
Total	(0.53)

Change in Fixed Cost of Power Purchase (November 03)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.41	15.39	(4.98)
Vindhyachal I&II	26.68	29.27	(2.59)
Gandhar	18.47	16.57	1.90
Kawas	9.60	9.66	(0.06)
NR Import	-	-	-
ER Import	3.37	-	3.37
SR Import	-	-	-
Power Grid Corp.	12.35	5.92	6.43
Total	80.89	76.81	4.08

Change in Variable cost of Power purchase (November 03)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	21.83	1,423.30	1.4347	
Vindhyachal I&II	35.02			
Gandhar	9.99			
Kawas	39.91			
Kakrapar	41.61			
PTC	35.51			
NVVN	8.37			
NR Import	-			
ER Import	4.00			
Adani	0.42			
SR Import	-			
Unscheduled Int.	4.46			27.50
Tarapur	5.48			59.52
Tata Electric Co.	18.97			78.55
Dodson	2.21	8.04		
Ad-hoc purchase	4.80	24.16		
Total	232.58	1,621.07		

FOCA calculations for the month of December 2003 (includes transit loss)		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	31.51	31.51
Cost of generation	(0.80)	(0.80)
Fixed Cost of power purchase	2.60	2.60
Variable Cost of power purchase	34.36	34.36
Other costs of power purchase	(4.64)	(4.64)
Energy Input	5,824	5,824
Generation	4,042	4,042
Power Purchase	1,782	1,782
T&D loss target	26.87%	26.87%
FOCA liable sale	4,259	4,259
FOCA rate (metered sale) paise/kWh		7.40
FOCA rate (metered sale) paise/kWh after rounding off		7.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		7.00
- LT-Ag (<1300 hours per annum)		5.00
		-
		-

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period December 2003									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	530	43	316	338	350	571	1,422	3,571	
Net Generation (MU)	485	39	285	308	316	515	1,314	3,261	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.68%	
Actual Gen. Cost (Rs Cr)	44.28	4.56	30.51	37.38	38.16	56.07	95.01	305.98	
Actual Heat Input	1,399,928	137,805	825,553	891,582	907,679	1,715,474	3,584,300	9,462,321	
Actual Fuel Cost (Rs/MkCal)	316.29	331.23	369.53	419.27	420.47	326.87	265.07	323.36	
Coal Cost excl. transit loss (Rs c	42.68	4.41	29.74	36.11	35.84	53.07	92.62	294.47	
Coal Cost incl. transit loss (Rs. C	43.19	4.53	29.81	36.39	36.11	53.52	93.46	297.01	
Actual Variable Cost (Rs/kWh)	0.9129	1.1734	1.0712	1.2154	1.2072	1.0885	0.7231		
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023		
Change in Costs (Rs Cr)	(0.16)	(0.13)	(0.02)	(3.18)	(0.65)	(4.17)	2.73	(5.58)	
Actual Heat Rate (kCal/kWh)	2,641	3,199	2,609	2,638	2,593	3,004	2,521	2,650	
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675	
Adjustment for Heat rate	1.41	0.00	1.47	0.35	0.83	(0.15)	(0.70)	3.22	
Actual Transit Loss (%)	1.20%	2.70%	0.23%	0.76%	0.72%	0.85%	0.90%		
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%		
Adjustment for Transit Loss	0.11	(0.01)	0.22	0.07	0.61	0.33	0.77	2.11	
Net Change in Gen Cost	1.36	(0.13)	1.67	(2.75)	0.78	(3.98)	2.80	(0.26)	
Change in cost of generation for Gas Station for the period December 2003									
	Dec-03								
Gross Generation (MU)	335								
Net Generation (MU)	327								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6623								
Base Variable Cost (Rs/kWh)	0.6742								
Change in Costs (Rs Cr)	(0.39)								
Actual Heat Rate (kCal/kWh)	1,981								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	(0.16)								
Net Change in Gen Cost	(0.55)								
Change in Total Cost of Generation									
	Dec-03								
Thermal	(0.26)								
Gas	(0.55)								
Total	(0.80)								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period December 2003**

	Total	Dec-03
Net Units Purchased (MU)	1,782	1,782
Actual Variable Cost (Rs. Cr.)	265.57	265.57
Actual Variable Cost (Rs/kWh)	1.4901	1.4901
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.1928	0.1928
Change in Cost (Rs Cr.)	34.36	34.36
Total Change in Variable Cost (Rs Cr.)	34.36	34.36

Change in Fixed cost of power purchase for December 2003

	Total	Dec-03
Actual Capacity Charges	79.34	79.34
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	2.60	2.60

Annexure 3 : Change in Other Costs of Power Purchase

Description	Dec-03
Incentive	2.94
Income Tax	
- NTPC	(7.92)
- NPC	(1.40)
- PGCIL	-
- ER power	-
-Advance tax for 2003-04 NTPC ER Power	0.20
PGCIL - other trans. chgs & O&M chgs	0.58
Other adjustments	1.40
UI charges & Reactive energy	(0.44)
Total	(4.64)

Change in Fixed Cost of Power Purchase (December 03)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.41	11.14	(0.73)
Vindhyachal I&II	24.98	22.40	2.58
Gandhar	18.47	18.44	0.03
Kawas	9.60	9.76	(0.16)
NR Import	-	-	-
ER Import	3.53	-	3.53
SR Import	-	-	-
Power Grid Corp.	12.35	15.00	(2.65)
Total	79.34	76.74	2.60

Change in Variable cost of Power purchase (December 03)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	23.18	1,514.46	1.4901	
Vindhyachal I&II	42.65			
Gandhar	10.46			
Kawas	45.41			
Kakrapar	38.35			
PTC	40.79			
NVVN	9.17			
NR Import	-			
ER Import	4.98			
Adani	5.26			
SR Import	-			
Unscheduled Int.*	13.58			89.18
Tarapur	6.60			71.80
Tata Electric Co.	17.96	74.63		
Dodson	1.45	5.31		
Ad-hoc purchase	5.75	26.88		
Total	265.57	1,782.27		

FOCA calculations for the month of January 2004		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	29.09	29.09
Cost of generation	(4.11)	(4.11)
Fixed Cost of power purchase	1.11	1.11
Variable Cost of power purchase	33.15	33.15
Other costs of power purchase	(1.06)	(1.06)
Energy Input	5,620	5,620
Generation	4,058	4,058
Power Purchase	1,563	1,563
T&D loss target	26.87%	26.87%
FOCA liable sale	4,110	4,110
FOCA rate (metered sale) paise/kWh		7.08
FOCA rate (metered sale) paise/kWh after rounding off		7.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		6.00
- LT-Ag (<1300 hours per year)		5.00

Annexure 1 : Change in cost of generation								
Change in cost of generation for the period January 2004								
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal
Gross Generation (MU)	601	40	313	416	417	507	1,430	3,726
Net Generation (MU)	550	36	282	379	377	458	1,322	3,403
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.66%
Actual Gen. Cost (Rs Cr)	47.87	4.46	30.86	49.11	44.07	44.73	94.69	315.78
Actual Heat Input	1,590,500	129,757	810,946	1,055,126	1,084,308	1,506,512	3,602,933	9,780,082
Actual Fuel Cost (Rs/MkCal)	300.97	343.47	380.53	465.48	406.39	296.89	262.81	322.88
Coal Cost excl. transit loss (Rs cr)	46.88	4.12	30.27	44.48	42.92	42.33	92.50	303.48
Coal Cost incl. transit loss (Rs. Cr)	47.47	4.23	30.33	44.65	43.21	42.71	93.27	305.88
Actual Variable Cost (Rs/kWh)	0.8701	1.2300	1.0942	1.2974	1.1696	0.9774	0.7164	
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023	
Change in Costs (Rs Cr)	(2.54)	0.09	0.62	(0.81)	(2.19)	(8.79)	1.87	(11.76)
Actual Heat Rate (kCal/kWh)	2,645	3,234	2,588	2,536	2,599	2,969	2,519	2,625
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675
Adjustment for Heat rate	1.44	(0.05)	1.76	2.45	0.85	0.40	(0.63)	6.22
Actual Transit Loss (%)	1.26%	2.67%	0.23%	0.40%	0.68%	0.91%	0.83%	
Norm - Transit Loss (%)	1.45%	1.45%	1.45%	1.45%	1.45%	1.45%	1.45%	
Adjustment for Transit Loss	0.09	(0.05)	0.37	0.47	0.33	0.23	0.58	2.02
Net Change in Gen Cost	(1.00)	(0.01)	2.75	2.11	(1.01)	(8.16)	1.81	(3.52)
Change in cost of generation for Gas Station for the period January 2004								
	Jan-04							
Gross Generation (MU)	355							
Net Generation (MU)	347							
Aux. Consumption	2.40%							
Actual Variable Cost (Rs/kWh)	0.6757							
Base Variable Cost (Rs/kWh)	0.6742							
Change in Costs (Rs Cr)	0.05							
Actual Heat Rate (kCal/kWh)	2,022							
Norm - Heat Rate (kCal/kWh)	1,966							
Adjustment for Heat rate	(0.65)							
Net Change in Gen Cost	(0.60)							
Change in Total Cost of Generation								
	Jan-04							
Thermal	(3.52)							
Gas	(0.60)							
Total	(4.11)							

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period January 2004**

	Total	Jan-04
Net Units Purchased (MU)	1,563	1,563
Actual Variable Cost (Rs. Cr.)	235.87	235.87
Actual Variable Cost (Rs/kWh)	1.5095	1.5095
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.2122	0.2122
Change in Cost (Rs Cr.)	33.15	33.15
Total Change in Variable Cost (Rs Cr.)	33.15	33.15

Change in Fixed cost of power purchase for January 2004

	Total	Jan-04
Actual Capacity Charges	77.85	77.85
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	1.11	1.11

Annexure 3 : Change in Other Costs of Power Purchase

Description	Jan-04
Incentive	3.28
Income Tax	
- NTPC	(7.92)
- NPC	(1.41)
- PGCIL	-
- ER power	-
-Advance tax for 2003-04	-
PGCIL - other trans. chgs & O&M chgs	0.70
Other adjustments	4.37
UI charges & Reactive energy	(0.08)
Total	(1.06)

Change in Fixed Cost of Power Purchase (January 04)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.41	11.14	(0.73)
Vindhyachal I&II	23.47	22.40	1.07
Gandhar	18.47	18.44	0.03
Kawas	9.60	9.76	(0.16)
NR Import	-	-	-
ER Import	3.55	-	3.55
SR Import	-	-	-
Power Grid Corp.	12.35	15.00	(2.65)
Total	77.85	76.74	1.11

Change in Variable cost of Power purchase (January 04)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	23.34	1,380.84	1.5095	
Vindhyachal I&II	40.67			
Gandhar	9.73			
Kawas	45.95			
Kakrapar	34.45			
PTC	33.33			
NVVN	10.89			
NR Import	-			
ER Import	4.77			
Adani	5.11			
SR Import	-			
Unscheduled Int.*	3.12			11.13
Tarapur	8.95			105.86
Tata Electric Co.	10.55			43.45
Dodson	0.27			1.01
Ad-hoc purchase	4.74			20.31
Total	235.87	1,562.60		

FOCA calculations for the month of February 2004		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	(2.45)	(2.45)
Cost of generation	(1.39)	(1.39)
Fixed Cost of power purchase	0.59	0.59
Variable Cost of power purchase	17.08	17.08
Other costs of power purchase	(18.73)	(18.73)
Energy Input	5,433	5,433
Generation	3,793	3,793
Power Purchase	1,641	1,641
T&D loss target	26.87%	26.87%
FOCA liable sale	3,973	3,973
FOCA rate (metered sale) paise/kWh		(0.62)
FOCA rate (metered sale) paise/kWh after rounding off		(1.00)
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		(1.00)
- LT-Ag (<1300 hours per year)		-

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period February 2004									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	370	39	266	433	398	425	1,418	3,349	
Net Generation (MU)	339	35	239	394	360	383	1,310	3,060	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.62%	
Actual Gen. Cost (Rs Cr)	29.63	4.09	25.45	52.35	40.98	39.06	94.84	286.41	
Actual Heat Input	976,140	125,806	684,735	1,109,183	1,038,170	1,266,702	3,572,197	8,772,933	
Actual Fuel Cost (Rs/MkCal)	303.50	325.45	371.68	472.00	394.71	308.37	265.51	326.47	
Coal Cost excl. transit loss (Rs cr)	28.32	3.90	24.88	49.24	39.74	36.74	92.95	275.76	
Coal Cost incl. transit loss (Rs. Cr)	28.83	4.02	24.94	49.66	40.01	37.14	93.67	278.28	
Actual Variable Cost (Rs/kWh)	0.8752	1.1640	1.0635	1.3279	1.1392	1.0199	0.7241		
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023		
Change in Costs (Rs Cr)	(1.39)	(0.15)	(0.20)	0.36	(3.19)	(5.73)	2.85	(7.45)	
Actual Heat Rate (kCal/kWh)	2,639	3,230	2,575	2,560	2,606	2,983	2,520	2,620	
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675	
Adjustment for Heat rate	0.97	(0.04)	1.58	2.10	0.67	0.17	(0.67)	4.78	
Actual Transit Loss (%)	1.77%	2.92%	0.24%	0.84%	0.69%	1.09%	0.78%		
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%		
Adjustment for Transit Loss	(0.09)	(0.01)	0.18	0.06	0.68	0.14	0.88	1.85	
Net Change in Gen Cost	(0.51)	(0.20)	1.56	2.52	(1.83)	(5.42)	3.06	(0.82)	
Change in cost of generation for Gas Station for the period February 2004									
	Feb-04								
Gross Generation (MU)	338								
Net Generation (MU)	330								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6875								
Base Variable Cost (Rs/kWh)	0.6742								
Change in Costs (Rs Cr)	0.44								
Actual Heat Rate (kCal/kWh)	2,057								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	(1.01)								
Net Change in Gen Cost	(0.57)								
Change in Total Cost of Generation									
	Feb-04								
Thermal	(0.82)								
Gas	(0.57)								
Total	(1.39)								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period February 2004**

	Total	Feb-04
Net Units Purchased (MU)	1,641	1,641
Actual Variable Cost (Rs. Cr.)	229.92	229.92
Actual Variable Cost (Rs/kWh)	1.4014	1.4014
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.1041	0.1041
Change in Cost (Rs Cr.)	17.08	17.08
Total Change in Variable Cost (Rs Cr.)	17.08	17.08

Change in Fixed cost of power purchase for February 2004

	Total	Feb-04
Actual Capacity Charges	77.33	77.33
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	0.59	0.59

Annexure 3 : Change in Other Costs of Power Purchase

Description	Feb-04
Incentive	4.17
Income Tax	
- NTPC	(7.92)
- NPC	(1.41)
- PGCIL	-
- ER power	-
-Advance tax for 2003-04	(16.04)
PGCIL - other trans. chgs & O&M chgs	(0.03)
Other adjustments	2.68
UI charges & Reactive energy	(0.18)
Total	(18.73)

Change in Fixed Cost of Power Purchase (February 04)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.41	11.14	(0.73)
Vindhyachal I&II	22.85	22.40	0.45
Gandhar	18.47	18.44	0.03
Kawas	9.60	9.76	(0.16)
NR Import	-	-	-
ER Import	3.64	-	3.64
SR Import	-	-	-
Power Grid Corp.	12.35	15.00	(2.65)
Total	77.33	76.74	0.59

Change in Variable cost of Power purchase (February 04)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	21.77	1,439.17	1.4014	
Vindhyachal I&II	40.67			
Gandhar	9.17			
Kawas	42.14			
Kakrapar	26.87			
PTC	37.94			
NVVN	12.78			
NR Import	-			
ER Import	4.74			
Adani	5.30			
SR Import	-			
Unscheduled Int.*	8.68			51.28
Tarapur	8.24			97.50
Tata Electric Co.	7.93			32.62
Dodson	1.01	3.72		
Ad-hoc purchase	2.68	16.42		
Total	229.92	1,640.71		

FOCA calculations for the month of March 2004		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	58.26	58.26
Cost of generation	15.20	15.20
Fixed Cost of power purchase	0.47	0.47
Variable Cost of power purchase	33.67	33.67
Other costs of power purchase	8.93	8.93
Energy Input	6,042	6,042
Generation	4,259	4,259
Power Purchase	1,783	1,783
T&D loss target	26.87%	26.87%
FOCA liable sale	4,418	4,418
FOCA rate (metered sale) paise/kWh		13.19
FOCA rate (metered sale) paise/kWh after rounding off		13.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		12.00
- LT-Ag (<1300 hours per year)		10.00

Annexure 1 : Change in cost of generation								
Change in cost of generation for the period March 2004								
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal
Gross Generation (MU)	494	41	309	606	456	486	1,495	3,888
Net Generation (MU)	452	37	278	551	412	439	1,382	3,551
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.67%
Actual Gen. Cost (Rs Cr)	41.18	4.60	32.00	79.87	49.29	46.17	102.62	355.73
Actual Heat Input	1,307,345	133,338	821,605	1,528,314	1,225,596	1,457,294	3,772,264	10,245,756
Actual Fuel Cost (Rs/MkCal)	314.97	345.30	389.46	522.60	402.13	316.82	272.04	347.19
Coal Cost excl. transit loss (Rs cr)	38.40	4.36	30.77	78.36	48.06	42.81	100.60	343.37
Coal Cost incl. transit loss (Rs. Cr)	39.02	4.55	30.82	78.82	48.39	43.22	101.39	346.21
Actual Variable Cost (Rs/kWh)	0.9109	1.2353	1.1517	1.4483	1.1964	1.0524	0.7427	
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023	
Change in Costs (Rs Cr)	(0.24)	0.11	2.21	7.14	(1.30)	(5.14)	5.59	8.37
Actual Heat Rate (kCal/kWh)	2,646	3,230	2,661	2,522	2,686	2,996	2,523	2,635
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675
Adjustment for Heat rate	1.23	(0.04)	0.89	4.47	(0.69)	(0.00)	(0.84)	5.00
Actual Transit Loss (%)	1.59%	4.02%	0.16%	0.59%	0.68%	0.94%	0.77%	
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%	
Adjustment for Transit Loss	(0.05)	(0.07)	0.25	0.29	0.83	0.23	0.96	2.45
Net Change in Gen Cost	0.93	(0.00)	3.35	11.90	(1.15)	(4.91)	5.70	15.82
Change in cost of generation for Gas Station for the period March 2004								
	Mar-04							
Gross Generation (MU)	367							
Net Generation (MU)	358							
Aux. Consumption	2.40%							
Actual Variable Cost (Rs/kWh)	0.7155							
Base Variable Cost (Rs/kWh)	0.6742							
Change in Costs (Rs Cr)	1.48							
Actual Heat Rate (kCal/kWh)	2,141							
Norm - Heat Rate (kCal/kWh)	1,966							
Adjustment for Heat rate	(2.10)							
Net Change in Gen Cost	(0.62)							
Change in Total Cost of Generation								
	Mar-04							
Thermal	15.82							
Gas	(0.62)							
Total	15.20							

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period March 2004**

	Total	Mar-04
Net Units Purchased (MU)	1,783	1,783
Actual Variable Cost (Rs. Cr.)	265.03	265.03
Actual Variable Cost (Rs/kWh)	1.4861	1.4861
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.1888	0.1888
Change in Cost (Rs Cr.)	33.67	33.67
Total Change in Variable Cost (Rs Cr.)	33.67	33.67

Change in Fixed cost of power purchase for March 2004

	Total	Mar-04
Actual Capacity Charges	77.21	77.21
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	0.47	0.47

Annexure 3 : Change in Other Costs of Power Purchase

Description	Mar-04
Incentive	3.82
Income Tax	
- NTPC	(7.92)
- NPC	(1.41)
- PGCIL	-
-Dodson and TAPS	11.49
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	(0.57)
PGCIL - other trans. chgs & O&M chgs	0.31
Other adjustments	3.27
UI charges & Reactive energy	(0.08)
Total	8.93

Change in Fixed Cost of Power Purchase (March 04)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.41	11.14	(0.73)
Vindhyachal I&II	22.85	22.40	0.45
Gandhar	18.47	18.44	0.03
Kawas	9.60	9.76	(0.16)
NR Import	-	-	-
ER Import	3.52	-	3.52
SR Import	-	-	-
Power Grid Corp.	12.35	15.00	(2.65)
Total	77.21	76.74	0.47

Change in Variable cost of Power purchase (March 04)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	23.04	1,471.89	1.4861	
Vindhyachal I&II	43.04			
Gandhar	8.65			
Kawas	49.21			
Kakrapar	33.79			
PTC	32.05			
NVVN	10.29			
NR Import	-			
ER Import	4.43			
Adani	5.94			
SR Import	-			
Unscheduled Int.*	14.47			67.57
Tarapur	9.41			111.32
Tata N. P.	25.44			108.21
Dodson	0.32	1.23		
Ad-hoc purchase	4.94	23.15		
Total	265.03	1,783.37		

FOCA calculations for the month of April 2004		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	58.39	58.39
Cost of generation	12.34	12.34
Fixed Cost of power purchase	(4.68)	(4.68)
Variable Cost of power purchase	36.64	36.64
Other costs of power purchase	14.09	14.09
Energy Input	5,798	5,798
Generation	4,002	4,002
Power Purchase	1,796	1,796
T&D loss target	26.87%	26.87%
FOCA liable sale	4,240	4,240
FOCA rate (metered sale) paise/kWh		13.77
FOCA rate (metered sale) paise/kWh after rounding off		14.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		12.00
- LT-Ag (<1300 hours per year)		10.00

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period April 2004									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	570	36	315	508	282	578	1,347	3,636	
Net Generation (MU)	521	32	283	462	255	522	1,244	3,320	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.68%	
Actual Gen. Cost (Rs Cr)	46.79	4.17	34.45	63.25	29.38	53.90	95.75	327.68	
Actual Heat Input	1,506,925	117,367	799,296	1,291,069	747,315	1,724,679	3,439,367	9,626,018	
Actual Fuel Cost (Rs/MkCal)	310.47	355.03	430.99	489.91	393.12	312.53	278.40	340.42	
Coal Cost excl. transit loss (Rs cr)	45.15	3.71	33.89	60.08	28.09	51.50	93.28	315.68	
Coal Cost incl. transit loss (Rs. Cr)	45.39	3.89	33.92	60.53	28.39	51.50	94.08	317.71	
Actual Variable Cost (Rs/kWh)	0.8978	1.2835	1.2156	1.3676	1.1523	1.0336	0.7694		
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023		
Change in Costs (Rs Cr)	(0.96)	0.25	4.07	2.26	(1.92)	(7.09)	8.36	4.96	
Actual Heat Rate (kCal/kWh)	2,646	3,264	2,538	2,540	2,647	2,983	2,554	2,648	
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675	
Adjustment for Heat rate	1.40	(0.08)	2.67	3.05	0.02	0.23	(1.94)	5.36	
Actual Transit Loss (%)	0.54%	4.52%	0.11%	0.75%	1.08%	0.00%	0.86%		
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%		
Adjustment for Transit Loss	0.41	(0.08)	0.29	0.13	0.37	0.76	0.81	2.70	
Net Change in Gen Cost	0.85	0.09	7.03	5.44	(1.53)	(6.10)	7.23	13.02	
Change in cost of generation for Gas Station for the period April 2004									
Apr-04									
Gross Generation (MU)	366								
Net Generation (MU)	357								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6545								
Base Variable Cost (Rs/kWh)	0.6742								
Change in Costs (Rs Cr)	(0.70)								
Actual Heat Rate (kCal/kWh)	1,964								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	0.02								
Net Change in Gen Cost	(0.68)								
Change in Total Cost of Generation									
Apr-04									
Thermal	13.02								
Gas	(0.68)								
Total	12.34								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period April 2004**

	Total	Apr-04
Net Units Purchased (MU)	1,796	1,796
Actual Variable Cost (Rs. Cr.)	269.64	269.64
Actual Variable Cost (Rs/kWh)	1.5013	1.5013
Approved Net Units Purchased (MU)	-	
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.2040	0.2040
Change in Cost (Rs Cr.)	36.64	36.64
Total Change in Variable Cost (Rs Cr.)	36.64	36.64

Change in Fixed cost of power purchase for April 2004

	Total	Apr-04
Actual Capacity Charges	72.06	72.06
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(4.68)	(4.68)

Annexure 3 : Change in Other Costs of Power Purchase

Description	Apr-04
Incentive	3.39
Income Tax	
- NTPC	(7.92)
- NPC	(1.41)
- Kakrapar	18.42
-Dodson and TAPS	-
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	-
PGCIL - other trans. chgs & O&M chgs	0.54
Other adjustments	1.08
UI charges & Reactive energy	(0.01)
Total	14.09

Change in Fixed Cost of Power Purchase (April 04)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.41	11.14	(0.73)
Vindhyachal I&II	22.84	22.40	0.44
Gandhar	14.70	18.44	(3.74)
Kawas	8.36	9.76	(1.40)
NR Import	-	-	-
ER Import	3.40	-	3.40
SR Import	-	-	-
Power Grid Corp.	12.35	15.00	(2.65)
Total	72.06	76.74	(4.68)

Change in Variable cost of Power purchase (April 04)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	20.91	1,504.28	1.5013	
Vindhyachal I&II	40.42			
Gandhar	11.31			
Kawas	42.62			
Kakrapar	23.26			
PTC	50.30			
NVVN	16.93			
NR Import	-			
ER Import	3.92			
Adani	5.69			
SR Import	-			
Unscheduled Int.*	28.27			117.95
Tarapur	11.14			106.93
Tata N. P.	9.69	42.23		
Dodson	0.70	2.71		
Ad-hoc purchase	4.48	21.95		
Total	269.64	1,796.04		

FOCA calculations for the month of May2004		
Summary - Total FOCA to be charged	Total	FOCA to be levied for one month
FOCA (Rs. cr.)	8.49	8.49
Cost of generation	30.72	30.72
Fixed Cost of power purchase	(4.84)	(4.84)
Variable Cost of power purchase	26.91	26.91
Other costs of power purchase	(44.30)	(44.30)
Energy Input	5,597	5,597
Generation	4,043	4,043
Power Purchase	1,554	1,554
T&D loss target	26.87%	26.87%
FOCA liable sale	4,093	4,093
FOCA rate (metered sale) paise/kWh		2.07
FOCA allowed to be recovered		0.00
FOCA rate (metered sale) paise/kWh after rounding off		2.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		2.00
- LT-Ag (<1300 hours per year)		2.00

Annexure 1 : Change in cost of generation								
Change in cost of generation for the period May 2004								
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal
Gross Generation (MU)	582	37	315	552	242	549	1,500	3,776
Net Generation (MU)	532	33	284	502	219	495	1,386	3,451
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.62%
Actual Gen. Cost (Rs Cr)	46.34	4.09	38.32	75.69	27.21	58.05	107.97	357.67
Actual Heat Input	1,541,099	119,203	855,906	1,412,403	640,208	1,643,715	3,838,525	10,051,059
Actual Fuel Cost (Rs/MkCal)	300.69	343.14	447.75	535.88	424.95	353.17	281.29	355.85
Coal Cost excl. transit loss (Rs cr)	44.90	3.79	36.86	72.89	25.13	55.83	105.93	345.33
Coal Cost incl. transit loss (Rs. Cr)	45.13	3.95	36.90	73.55	25.34	55.83	106.79	347.49
Actual Variable Cost (Rs/kWh)	0.8703	1.2305	1.3510	1.5063	1.2448	1.1729	0.7793	
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023	
Change in Costs (Rs Cr)	(2.45)	0.08	7.91	9.42	0.37	0.17	10.67	26.17
Actual Heat Rate (kCal/kWh)	2,648	3,238	2,715	2,558	2,645	2,996	2,560	2,662
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675
Adjustment for Heat rate	1.34	(0.05)	0.28	3.11	0.04	0.01	(2.44)	2.29
Actual Transit Loss (%)	0.51%	3.96%	0.12%	0.89%	0.80%	0.00%	0.81%	
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%	
Adjustment for Transit Loss	0.42	(0.05)	0.32	0.05	0.40	0.82	0.97	2.93
Net Change in Gen Cost	(0.68)	(0.02)	8.50	12.58	0.82	1.00	9.20	31.39
Change in cost of generation for Gas Station for the period May 2004								
	May-04							
Gross Generation (MU)	361							
Net Generation (MU)	352							
Aux. Consumption	2.40%							
Actual Variable Cost (Rs/kWh)	0.6685							
Base Variable Cost (Rs/kWh)	0.6742							
Change in Costs (Rs Cr)	(0.20)							
Actual Heat Rate (kCal/kWh)	2,006							
Norm - Heat Rate (kCal/kWh)	1,966							
Adjustment for Heat rate	(0.47)							
Net Change in Gen Cost	(0.67)							
Change in Total Cost of Generation								
	May-04							
Thermal	31.39							
Gas	(0.67)							
Total	30.72							

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period May 2004**

	Total	May-04
Net Units Purchased (MU)	1,554	1,554
Actual Variable Cost (Rs. Cr.)	228.50	228.50
Actual Variable Cost (Rs/kWh)	1.4704	1.4704
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.1731	0.1731
Change in Cost (Rs Cr.)	26.91	26.91
Total Change in Variable Cost (Rs Cr.)	26.91	26.91

Change in Fixed cost of power purchase for May 2004

	Total	May-04
Actual Capacity Charges	71.90	71.90
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(4.84)	(4.84)

Annexure 3 : Change in Other Costs of Power Purchase

	May-04
Incentive	2.10
Income Tax	
- NTPC	(25.16)
- NPC	(1.41)
- PGCIL	-
-Dodson and TAPS	-
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	2.12
PGCIL - other trans. chgs & O&M chgs	0.57
Other adjustments	(22.55)
UI charges & Reactive energy	0.02
Total	(44.30)

Change in Fixed Cost of Power Purchase (May 04)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.46	11.14	(0.68)
Vindhyachal I&II	22.93	22.40	0.53
Gandhar	13.44	18.44	(5.00)
Kawas	8.41	9.76	(1.35)
NR Import	-	-	-
ER Import	4.31	-	4.31
SR Import	-	-	-
Power Grid Corp.	12.35	15.00	(2.65)
Total	71.90	76.74	(4.84)

Change in Variable cost of Power purchase (May 04)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	20.60	1,370.23	1.4704	
Vindhyachal I&II	37.84			
Gandhar	10.96			
Kawas	62.73			
Kakrapar	8.59			
PTC	39.73			
NVVN	13.98			
NR Import	-			
ER Import	4.67			
Adani	5.50			
SR Import	-			
Unscheduled Int.*	8.72			58.92
Tarapur	10.63			102.04
Tata N. P.	1.02			4.67
Dodson	-	-		
Ad-hoc purchase	3.54	18.07		
Total	228.50	1,553.93		

("FOCA calculations for the month of "June," 2004 ")		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	55.89	55.89
Cost of generation	27.82	27.82
Fixed Cost of power purchase	(4.21)	(4.21)
Variable Cost of power purchase	5.72	5.72
Other costs of power purchase	(26.92)	(26.92)
Increase in D.A. 1 st instt.	53.48	53.48
Energy Input	4,914	4,914
Generation	3,548	3,548
Power Purchase	1,366	1,366
T&D loss target	26.87%	26.87%
FOCA liable sale	3,742	3,742
FOCA rate (metered sale) paise/kWh		14.94
FOCA rate (metered sale) paise/kWh after rounding off		15.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		14.00
- LT-Ag (<1300 hours per year)		11.00

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period June 2004									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	530	25	308	446	396	541	1,079	3,325	
Net Generation (MU)	485	23	278	405	357	488	997	3,033	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.78%	
Actual Gen. Cost (Rs Cr)	44.21	3.12	38.42	59.17	44.54	55.69	80.07	325.22	
Actual Heat Input	1,404,671	84,614	837,647	1,136,630	1,047,748	1,619,606	2,782,717	8,913,633	
Actual Fuel Cost (Rs/MkCal)	314.76	368.15	458.70	520.59	425.07	343.85	287.74	364.86	
Coal Cost excl. transit loss (Rs cr)	42.75	2.84	36.79	56.01	42.82	52.75	77.80	311.76	
Coal Cost incl. transit loss (Rs. Cr)	43.02	3.02	36.85	56.49	43.08	52.75	78.57	313.78	
Actual Variable Cost (Rs/kWh)	0.9122	1.3692	1.3844	1.4594	1.2459	1.1418	0.8028		
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023		
Change in Costs (Rs Cr)	(0.19)	0.37	8.67	5.70	0.65	(1.35)	10.03	23.86	
Actual Heat Rate (kCal/kWh)	2,652	3,358	2,716	2,551	2,647	2,995	2,578	2,681	
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675	
Adjustment for Heat rate	1.22	(0.15)	0.27	2.60	0.04	0.02	(2.36)	1.63	
Actual Transit Loss (%)	0.63%	6.21%	0.17%	0.86%	0.60%	0.00%	0.97%		
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%		
Adjustment for Transit Loss	0.35	(0.11)	0.30	0.06	0.77	0.78	0.59	2.74	
Net Change in Gen Cost	1.38	0.11	9.23	8.36	1.46	(0.56)	8.25	28.23	
Change in cost of generation for Gas Station for the period June 2004									
	Jun-04								
Gross Generation (MU)	328								
Net Generation (MU)	320								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6655								
Base Variable Cost (Rs/kWh)	0.6742								
Change in Costs (Rs Cr)	(0.28)								
Actual Heat Rate (kCal/kWh)	1,978								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	(0.13)								
Net Change in Gen Cost	(0.41)								
Change in Total Cost of Generation									
	Jun-04								
Thermal	28.23								
Gas	(0.41)								
Total	27.82								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period June 2004**

	Total	Jun-04
Net Units Purchased (MU)	1,366	1,366
Actual Variable Cost (Rs. Cr.)	182.90	182.90
Actual Variable Cost (Rs/kWh)	1.3392	1.3392
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.0419	0.0419
Change in Cost (Rs Cr.)	5.72	5.72
Total Change in Variable Cost (Rs Cr.)	5.72	5.72

Change in Fixed cost of power purchase for the period June 2004

	Total	Jun-04
Actual Capacity Charges	72.53	72.53
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(4.21)	(4.21)

Change in Other costs of power purchase for the period June 2004

Description	Jun-04
Incentive	1.60
Income Tax	
- NTPC	(7.92)
- NPC	(1.41)
- Kakrapar	-
-Dodson and TAPS	(0.29)
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	-
PGCIL - other trans. chgs & O&M chgs	0.23
Other adjustments	(19.16)
UI charges & Reactive energy	0.02
Total	(26.92)

Change in Fixed Cost of Power Purchase (June 04)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.60	11.14	(0.54)
Vindhyachal I&II	21.73	22.40	(0.67)
Gandhar	13.73	18.44	(4.71)
Kawas	8.54	9.76	(1.22)
NR Import	-	-	-
ER Import	5.52	-	5.52
SR Import	-	-	-
Power Grid Corp.	12.41	15.00	(2.59)
Total	72.53	76.74	(4.21)

Change in Variable cost of Power purchase (June 04)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	20.02	1,194.81	1.3392	
Vindhyachal I&II	33.62			
Gandhar	10.98			
Kawas	27.16			
Kakrapar	14.93			
PTC	33.49			
NVVN	5.46			
NR Import	-			
ER Import	5.92			
Adani	3.99			
SR Import	-			
Unscheduled Int.*	13.03			54.43
Tarapur	10.43			100.11
Tata N. P.	(0.06)			(0.28)
Dodson	-	-		
Ad-hoc purchase	3.93	16.66		
Total	182.90	1,365.73		

"FOCA calculations for the month of" July,2004 "		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	93.02	93.02
Cost of generation	22.44	22.44
Fixed Cost of power purchase	(3.18)	(3.18)
Variable Cost of power purchase	17.34	17.34
Other costs of power purchase	2.94	2.94
Increase in D.A. 2nd instt.	53.48	53.48
Energy Input	5,420	5,420
Generation	3,858	3,858
Power Purchase	1,563	1,563
T&D loss target	26.87%	26.87%
FOCA liable sale	3,964	3,964
FOCA rate (metered sale) paise/kWh		23.47
FOCA rate (metered sale) paise/kWh after rounding off		23.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		21.00
- LT-Ag (<1300 hours per year)		17.00

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period July2004									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	498	39	292	435	440	581	1,200	3,484	
Net Generation (MU)	456	35	263	396	397	524	1,109	3,179	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.76%	
Actual Gen. Cost (Rs Cr)	44.97	4.79	33.98	53.63	48.96	56.86	89.98	333.16	
Actual Heat Input	1,319,815	134,934	784,685	1,116,236	1,163,135	1,739,490	3,103,626	9,361,921	
Actual Fuel Cost (Rs/MkCal)	340.70	354.71	433.01	480.44	420.95	326.88	289.91	355.86	
Coal Cost excl. transit loss (Rs cr)	42.57	4.64	33.13	50.34	47.57	53.88	87.30	319.43	
Coal Cost incl. transi loss (Rs. Cr)	42.87	4.72	33.02	50.97	47.76	53.88	88.13	321.34	
Actual Variable Cost (Rs/kWh)	0.9864	1.3662	1.2942	1.3546	1.2321	1.0858	0.8115		
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023		
Change in Costs (Rs Cr)	3.20	0.56	5.83	1.42	0.17	(4.38)	12.11	18.90	
Actual Heat Rate (kCal/kWh)	2,649	3,478	2,690	2,566	2,643	2,996	2,586	2,687	
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675	
Adjustment for Heat rate	1.29	(0.38)	0.57	2.03	0.11	(0.00)	(2.93)	0.68	
Actual Transit Loss (%)	0.69%	1.67%	-0.33%	1.24%	0.39%	0.00%	0.94%		
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%		
Adjustment for Transit Loss	0.32	0.04	0.43	(0.14)	0.96	0.79	0.69	3.09	
Net Change in Gen Cost	4.81	0.22	6.83	3.31	1.24	(3.59)	9.86	22.67	
Change in cost of generation for Gas Station for the period July 2004									
	Jul-04								
Gross Generation (MU)	371								
Net Generation (MU)	362								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6656								
Base Variable Cost (Rs/kWh)	0.6742								
Change in Costs (Rs Cr)	(0.31)								
Actual Heat Rate (kCal/kWh)	1,960								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	0.08								
Net Change in Gen Cost	(0.24)								
Change in Total Cost of Generation									
	Jul-04								
Thermal	22.67								
Gas	(0.24)								
Total	22.44								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period July 2004**

	Total	Jul-04
Net Units Purchased (MU)	1,563	1,563
Actual Variable Cost (Rs. Cr.)	220.05	220.05
Actual Variable Cost (Rs/kWh)	1.4083	1.4083
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.1110	0.1110
Change in Cost (Rs Cr.)	17.34	17.34
Total Change in Variable Cost (Rs Cr.)	17.34	17.34

Change in Fixed cost of power purchase for July 2004

	Total	Jul-04
Actual Capacity Charges	73.56	73.56
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(3.18)	(3.18)

Annexure 3: Change in Other cost of power purchase for July 2004

Description	Jul-04
Incentive	1.79
Income Tax	
- NTPC	0.97
- NPC	(1.41)
- Kakrapar	-
-Dodson and TAPS	(0.03)
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	-
PGCIL - other trans. chgs & O&M chgs	(0.07)
Other adjustments	1.65
UI charges & Reactive energy	0.03
Total	2.94

Change in Fixed Cost of Power Purchase (July 04)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.41	11.14	(0.73)
Vindhyachal I&II	24.30	22.40	1.90
Gandhar	13.22	18.44	(5.22)
Kawas	8.36	9.76	(1.40)
NR Import	-	-	-
ER Import	5.11	-	5.11
SR Import	-	-	-
Power Grid Corp.	12.16	15.00	(2.84)
Total	73.56	76.74	(3.18)

Change in Variable cost of Power purchase (July 04)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	20.95	1,406.11	1.4083	
Vindhyachal I&II	42.54			
Gandhar	9.96			
Kawas	36.86			
Kakrapar	27.62			
PTC	44.07			
NVVN	-			
NR Import	-			
ER Import	4.91			
Adani	5.99			
SR Import	-			
Unscheduled Int.*	11.08			29.99
Tarapur	10.90			105.69
Tata N. P.	-	-		
Dodson	0.25	0.96		
Ad-hoc purchase	4.90	19.78		
Total	220.05	1,562.52		

("FOCA calculations for the month of ",August," 2004 ")		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	106.95	106.95
Cost of generation	58.74	58.74
Fixed Cost of power purchase	1.82	1.82
Variable Cost of power purchase	0.23	0.23
Other costs of power purchase	(7.32)	(7.32)
Increase in D. A.3rd instt.	53.48	53.48
Energy Input	4,994	4,994
Generation	3,551	3,551
Power Purchase	1,443	1,443
T&D loss target	26.87%	26.87%
FOCA liable sale	3,652	3,652
FOCA rate (metered sale) paise/kWh		29.28
FOCA rate (metered sale) paise/kWh after rounding off		29.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		27.00
- LT-Ag (<1300 hours per year)		22.00

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period August 2004									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	360	33	266	510	297	534	1,155	3,155	
Net Generation (MU)	329	30	239	464	268	481	1,067	2,880	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.72%	
Actual Gen. Cost (Rs Cr)	37.40	5.01	36.62	76.20	31.90	49.09	105.07	341.28	
Actual Heat Input	977,839	117,549	737,350	1,301,416	790,669	1,542,843	3,008,829	8,476,495	
Actual Fuel Cost (Rs/MkCal)	382.51	425.81	496.63	585.48	403.45	318.16	349.20	402.62	
Coal Cost excl. transit loss (Rs cr)	33.55	4.27	33.71	71.00	30.52	47.17	102.97	323.18	
Coal Cost incl. transit loss (Rs. Cr)	33.82	4.43	33.66	71.61	30.78	47.17	103.94	325.41	
Actual Variable Cost (Rs/kWh)	1.1353	1.6843	1.5312	1.6405	1.1882	1.0200	0.9845		
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023		
Change in Costs (Rs Cr)	7.22	1.42	10.98	14.94	(1.06)	(7.20)	30.12	56.42	
Actual Heat Rate (kCal/kWh)	2,716	3,572	2,775	2,550	2,659	2,892	2,605	2,687	
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675	
Adjustment for Heat rate	0.13	(0.52)	(0.53)	3.38	(0.13)	1.77	(4.16)	(0.05)	
Actual Transit Loss (%)	0.81%	3.72%	-0.14%	0.85%	0.85%	0.00%	0.94%		
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%		
Adjustment for Transit Loss	0.22	(0.05)	0.38	0.08	0.47	0.69	0.81	2.59	
Net Change in Gen Cost	7.56	0.85	10.83	18.40	(0.72)	(4.73)	26.77	58.97	
Change in cost of generation for Gas Station for the period August 2004									
	Aug-04								
Gross Generation (MU)	352								
Net Generation (MU)	343								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6767								
Base Variable Cost (Rs/kWh)	0.6742								
Change in Costs (Rs Cr)	0.08								
Actual Heat Rate (kCal/kWh)	1,993								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	(0.31)								
Net Change in Gen Cost	(0.23)								
Change in Total Cost of Generation									
	Aug-04								
Thermal	58.97								
Gas	(0.23)								
Total	58.74								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period August 2004**

	Total	Aug-04
Net Units Purchased (MU)	1,443	1,443
Actual Variable Cost (Rs. Cr.)	187.49	187.49
Actual Variable Cost (Rs/kWh)	1.2989	1.2989
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.0016	0.0016
Change in Cost (Rs Cr.)	0.23	0.23
Total Change in Variable Cost (Rs Cr.)	0.23	0.23

Change in Fixed cost of power purchase for August 2004

	Total	Aug-04
Actual Capacity Charges	78.56	78.56
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	1.82	1.82

Annexure 3 : Change in Other Costs of Power Purchase

Description	Aug-04
Incentive	1.35
Income Tax	
- NTPC	(7.92)
- NPC	(1.41)
- Kakrapar	-
-I. R.ER and TAPS	(2.20)
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	-
PGCIL - other trans. chgs & O&M chgs	3.49
Other adjustments	(0.65)
UI charges & Reactive energy	0.01
Total	(7.32)

Change in Fixed Cost of Power Purchase (August 04)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.41	11.14	(0.73)
Vindhyachal I&II	22.84	22.40	0.44
Gandhar	16.63	18.44	(1.81)
Kawas	8.36	9.76	(1.40)
NR Import	-	-	-
ER Import	8.36	-	8.36
SR Import	-	-	-
Power Grid Corp.	11.95	15.00	(3.05)
Total	78.56	76.74	1.82

Change in Variable cost of Power purchase (August 04)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	24.34	1,280.43	1.2989	
Vindhyachal I&II	33.68			
Gandhar	11.40			
Kawas	2.13			
Kakrapar	27.42			
PTC	31.06			
NVVN	-			
NR Import	-			
ER Import	8.36			
Adani	12.05			
SR Import	-			
Unscheduled Int.*	18.13			38.08
Tarapur	9.35			90.22
Tata N. P.	-	-		
Dodson	2.51	9.52		
Ad-hoc purchase	7.07	25.20		
Total	187.49	1,443.44		

FOCA calculations for the month of Sept. 2004		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	46.24	46.24
Cost of generation	60.32	60.32
Fixed Cost of power purchase	(1.60)	(1.60)
Variable Cost of power purchase	2.36	2.36
Other costs of power purchase	(14.84)	(14.84)
Energy Input	5,300	5,300
Generation	3,807	3,807
Power Purchase	1,493	1,493
T&D loss target	26.87%	26.87%
FOCA liable sale	3,876	3,876
FOCA rate (metered sale) paise/kWh		11.93
FOCA rate (metered sale) paise/kWh after rounding off		12.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		11.00
- LT-Ag (<1300 hours per year)		9.00

Change in cost of generation for the period Sept. 2004								
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal
Gross Generation (MU)	465	33	286	442	419	586	1,281	3,513
Net Generation (MU)	426	29	258	402	379	529	1,184	3,206
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.73%
Actual Variable Cost (Rs/kWh)	1.0129	1.6989	1.4794	1.5693	1.2193	1.0404	1.0419	
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023	
Change in Costs (Rs Cr)	4.12	1.45	10.49	10.07	(0.32)	(6.82)	40.21	59.19
Actual Heat Rate (kCal/kWh)	2,675	3,729	2,713	2,599	2,641	2,900	2,619	2,692
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675
Adjustment for Heat rate	0.80	(0.71)	0.31	1.55	0.14	1.82	(5.52)	(1.61)
Actual Transit Loss (%)	0.69%	4.35%	0.27%	1.18%	0.62%	0.00%	0.88%	
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%	
Adjustment for Transit Loss	0.31	(0.08)	0.26	(0.13)	0.78	0.78	1.02	2.94
Net Change in Gen Cost	5.22	0.66	11.07	11.49	0.60	(4.23)	35.70	60.52
Change in cost of generation for Gas Station for the period Sept. 2004								
	Sept.04							
Gross Generation (MU)	340							
Net Generation (MU)	332							
Aux. Consumption	2.40%							
Actual Variable Cost (Rs/kWh)	0.6768							
Base Variable Cost (Rs/kWh)	0.6742							
Change in Costs (Rs Cr)	0.09							
Actual Heat Rate (kCal/kWh)	1,991							
Norm - Heat Rate (kCal/kWh)	1,966							
Adjustment for Heat rate	(0.29)							
Net Change in Gen Cost	(0.20)							
Change in Total Cost of Generation								
	Sept.04							
Thermal	60.52							
Gas	(0.20)							
Total	60.32							

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period Sept.04**

	Total	Sept.04
Net Units Purchased (MU)	1,493	1,493
Actual Variable Cost (Rs. Cr.)	196.03	196.03
Actual Variable Cost (Rs/kWh)	1.3131	1.3131
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.0158	0.0158
Change in Cost (Rs Cr.)	2.36	2.36
Total Change in Variable Cost (Rs Cr.)	2.36	2.36

Change in Fixed cost of power purchase for Sept. 2004

	Total	Apr-04
Actual Capacity Charges	75.14	75.14
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(1.60)	(1.60)

Annexure 3 : Change in Other Costs of Power Purchase

Description	Sept.04
Incentive	1.36
Income Tax	
- NTPC	(7.92)
- NPC	(1.41)
- Kakrapar	-
Energy charges June04 and TAPS	(0.31)
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	-
PGCIL - other trans. chgs & O&M chgs	1.84
Other adjustments	(8.41)
UI charges & Reactive energy	0.01
Total	(14.84)

Change in Fixed Cost of Power Purchase (September 04)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.42	11.14	(0.72)
Vindhyachal I&II	21.41	22.40	(0.99)
Gandhar	15.32	18.44	(3.12)
Kawas	8.36	9.76	(1.40)
NR Import	-	-	-
ER Import	8.63	-	8.63
SR Import	-	-	-
Power Grid Corp.	10.99	15.00	(4.01)
Total	75.14	76.74	(1.60)

Change in Variable cost of Power purchase (Sept. 04)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	18.25	1,422.95	1.3131	
Vindhyachal I&II	34.80			
Gandhar	11.08			
Kawas	15.58			
Kakrapar	22.02			
PTC	65.49			
NVVN	-			
NR Import	-			
ER Import	9.81			
Adani	15.87			
SR Import	-			
Unscheduled Int.*	(20.63)			(86.57)
Tarapur	10.75			103.70
Tata N. P.	7.78	28.75		
Dodson	0.69	2.64		
Ad-hoc purchase	4.54	21.37		
Total	196.03	1,492.83		

FOCA calculations for the month of October 2004		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	135.12	135.12
Cost of generation	89.70	89.70
Fixed Cost of power purchase	(4.25)	(4.25)
Variable Cost of power purchase	37.44	37.44
Other costs of power purchase	12.23	12.23
Energy Input	5,752	5,752
Generation	4,124	4,124
Power Purchase	1,629	1,629
T&D loss target	26.87%	26.87%
FOCA liable sale	4,207	4,207
FOCA rate (metered sale) paise/kWh		32.12
FOCA rate (metered sale) paise/kWh after rounding off		32.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		29.00
- LT-Ag (<1300 hours per year)		24.00

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period Oct. 2004									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	547	35	313	429	437	568	1,474	3,802	
Net Generation (MU)	500	31	282	390	394	512	1,362	3,472	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.67%	
Actual Variable Cost (Rs/kWh)	1.1060	1.4880	1.6426	2.0836	1.1594	1.0485	0.9945		
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023		
Change in Costs (Rs Cr)	9.50	0.89	16.06	29.84	(2.70)	(6.20)	39.80	87.19	
Actual Heat Rate (kCal/kWh)	2,704	3,351	2,660	2,598	2,648	2,935	2,618	2,689	
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675	
Adjustment for Heat rate	0.44	(0.21)	1.31	2.02	0.01	1.11	(5.98)	(1.30)	
Actual Transit Loss (%)	0.62%	2.76%	-0.28%	0.54%	0.82%	0.00%	0.77%		
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%		
Adjustment for Transit Loss	0.44	(0.01)	0.58	0.33	0.70	0.76	1.26	4.06	
Net Change in Gen Cost	10.38	0.67	17.95	32.20	(1.99)	(4.33)	35.08	89.95	
Change in cost of generation for Gas Station for the period Oct. 2004									
	Oct.2004								
Gross Generation (MU)	324								
Net Generation (MU)	316								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6790								
Base Variable Cost (Rs/kWh)	0.6742								
Change in Costs (Rs Cr)	0.15								
Actual Heat Rate (kCal/kWh)	2,003								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	(0.40)								
Net Change in Gen Cost	(0.25)								
Change in Total Cost of Generation									
	Oct.2004								
Thermal	89.95								
Gas	(0.25)								
Total	89.70								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period October 2004**

	Total	Oct.2004
Net Units Purchased (MU)	1,629	1,629
Actual Variable Cost (Rs. Cr.)	248.73	248.73
Actual Variable Cost (Rs/kWh)	1.5272	1.5272
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.2299	0.2299
Change in Cost (Rs Cr.)	37.44	37.44
Total Change in Variable Cost (Rs Cr.)	37.44	37.44

Change in Fixed cost of power purchase for October 2004

	Total	Oct.2004
Actual Capacity Charges	72.49	72.49
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(4.25)	(4.25)

Annexure 3 : Change in Other Costs of Power Purchase

Description	Oct.2004
Incentive	0.20
Income Tax	
- NTPC	21.85
- NPC	(1.41)
- Kakrapar	-
-Dodson and TAPS	-
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	-
PGCIL - other trans. chgs & O&M chgs	(9.19)
Other adjustments	1.27
UI charges & Reactive energy	(0.49)
Total	12.23

Change in Fixed Cost of Power Purchase (Oct.04)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.42	11.14	(0.72)
Vindhyachal I&II	24.27	22.40	1.87
Gandhar	15.04	18.44	(3.40)
Kawas	8.36	9.76	(1.40)
NR Import	-	-	-
ER Import	3.77	-	3.77
SR Import	-	-	-
Power Grid Corp.	10.63	15.00	(4.37)
Total	72.49	76.74	(4.25)

Change in Variable cost of Power purchase (Oct. 04)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	19.18	1,426.13	1.5272	
Vindhyachal I&II	41.92			
Gandhar	10.97			
Kawas	59.77			
Kakrapar	26.11			
PTC	56.88			
NVVN	-			
NR Import	-			
ER Import	5.24			
Adani	7.60			
SR Import	-			
Unscheduled Int.*	3.86			65.04
Tarapur	10.68			103.08
Tata N. P.	2.12	8.25		
Dodson	0.47	1.82		
Ad-hoc purchase	3.92	24.35		
Total	248.73	1,628.67		

FOCA calculations for the month of November 2004		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	54.47	54.47
Cost of generation	73.42	73.42
Fixed Cost of power purchase	(5.82)	(5.82)
Variable Cost of power purchase	47.85	47.85
Other costs of power purchase	(60.97)	(60.97)
Energy Input	5,823	5,823
Generation	4,171	4,171
Power Purchase	1,652	1,652
T&D loss target	26.87%	26.87%
FOCA liable sale	4,258	4,258
FOCA rate (metered sale) paise/kWh		12.79
FOCA rate (metered sale) paise/kWh after rounding off		13.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		12.00
- LT-Ag (<1300 hours per year)		9.00

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period November 2004									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	567	42	247	412	480	558	1,470	3,778	
Net Generation (MU)	519	38	223	374	434	504	1,359	3,451	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.66%	
Actual Gen. Cost (Rs Cr)	56.86	5.47	33.54	73.54	50.32	51.69	132.47	403.89	
Actual Heat Input	1,508,727	134,918	648,967	1,093,445	1,270,014	1,622,641	3,845,747	10,124,459	
Actual Fuel Cost (Rs/MkCal)	376.88	405.34	516.86	672.56	396.24	318.53	344.45	398.92	
Coal Cost excl. transit loss (Rs cr)	55.03	5.01	33.09	71.85	48.79	50.16	130.38	394.31	
Coal Cost incl. transit loss (Rs. Cr)	55.42	5.46	32.97	72.10	49.07	50.16	131.48	396.67	
Actual Variable Cost (Rs/kWh)	1.0951	1.4335	1.5073	1.9638	1.1599	1.0263	0.9750		
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023		
Change in Costs (Rs Cr)	9.29	0.87	9.68	24.15	(2.95)	(7.21)	37.05	70.88	
Actual Heat Rate (kCal/kWh)	2,659	3,193	2,625	2,657	2,643	2,906	2,615	2,680	
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675	
Adjustment for Heat rate	1.42	0.01	1.41	0.16	0.11	1.60	(5.74)	(1.03)	
Actual Transit Loss (%)	0.71%	8.19%	-0.37%	0.35%	0.58%	0.00%	0.84%		
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%		
Adjustment for Transit Loss	0.41	(0.28)	0.45	0.44	0.89	0.74	1.15	3.78	
Net Change in Gen Cost	11.11	0.60	11.54	24.75	(1.95)	(4.88)	32.45	73.63	
Change in cost of generation for Gas Station for the period November 2004									
	Nov.2004								
Gross Generation (MU)	299								
Net Generation (MU)	292								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6770								
Base Variable Cost (Rs/kWh)	0.6742								
Change in Costs (Rs Cr)	0.08								
Actual Heat Rate (kCal/kWh)	1,996								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	(0.30)								
Net Change in Gen Cost	(0.21)								
Change in Total Cost of Generation									
	Nov.2004								
Thermal	73.63								
Gas	(0.21)								
Total	73.42								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period November 2004**

	Total	Nov.04
Net Units Purchased (MU)	1,652	1,652
Actual Variable Cost (Rs. Cr.)	262.11	262.11
Actual Variable Cost (Rs/kWh)	1.5870	1.5870
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.2897	0.2897
Change in Cost (Rs Cr.)	47.85	47.85
Total Change in Variable Cost (Rs Cr.)	47.85	47.85

Change in Fixed cost of power purchase for Nov. 2004

	Total	Nov.04
Actual Capacity Charges	70.92	70.92
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(5.82)	(5.82)

Annexure 3 : Change in Other Costs of Power Purchase

Description	Nov.04
Incentive	2.01
Income Tax	
- NTPC	(7.27)
- NPC	(1.41)
- Kakrapar	-
-Dodson and TAPS	-
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	-
PGCIL - other trans. chgs & O&M chgs	(9.63)
Other adjustments	(44.53)
UI charges & Reactive energy	(0.14)
Total	(60.97)

Change in Fixed Cost of Power Purchase (Nov. 04)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.41	11.14	(0.73)
Vindhyachal I&II	22.84	22.40	0.44
Gandhar	15.03	18.44	(3.41)
Kawas	8.37	9.76	(1.39)
NR Import	-	-	-
ER Import	3.64	-	3.64
SR Import	-	-	-
Power Grid Corp.	10.63	15.00	(4.37)
Total	70.92	76.74	(5.82)

Change in Variable cost of Power purchase (Nov. 04)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	23.68	1,418.25	1.5870	
Vindhyachal I&II	36.85			
Gandhar	10.66			
Kawas	70.97			
Kakrapar	20.49			
PTC	35.28			
NVVN	3.82			
NR Import	-			
ER Import	4.94			
Adani	-			
SR Import	-			
Unscheduled Int.*	27.78			70.82
Tarapur	8.60			82.96
Tata N. P.	11.10	41.86		
Dodson	0.88	3.40		
Ad-hoc purchase	7.06	34.33		
Total	262.11	1,651.62		

FOCA calculations for the month of December 2004		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	94.45	94.45
Cost of generation	51.24	51.24
Fixed Cost of power purchase	(5.28)	(5.28)
Variable Cost of power purchase	60.81	60.81
Other costs of power purchase	(12.32)	(12.32)
Energy Input	6,026	6,026
Generation	4,251	4,251
Power Purchase	1,774	1,774
T&D loss target	26.87%	26.87%
FOCA liable sale	4,407	4,407
FOCA rate (metered sale) paise/kWh		21.43
FOCA rate (metered sale) paise/kWh after rounding off		21.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		19.00
- LT-Ag (<1300 hours per year)		16.00

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period December 2004									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	573	39	115	515	507	558	1,477	3,783	
Net Generation (MU)	524	35	103	469	458	503	1,365	3,457	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.63%	
Actual Gen. Cost (Rs Cr)	59.11	4.23	15.64	72.24	50.53	51.11	132.01	384.88	
Actual Heat Input	1,497,406	123,857	308,032	1,376,292	1,341,589	1,619,722	3,865,376	10,132,274	
Actual Fuel Cost (Rs/MkCal)	394.76	341.30	507.82	524.91	376.68	315.52	341.52	379.85	
Coal Cost excl. transit loss (Rs cr)	57.57	4.57	15.16	69.21	48.82	50.51	129.24	375.09	
Coal Cost incl. transit loss (Rs. Cr)	57.97	4.08	15.18	69.56	49.18	50.51	130.36	376.85	
Actual Variable Cost (Rs/kWh)	1.1281	1.2086	1.5151	1.5409	1.1046	1.0160	0.9670		
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023		
Change in Costs (Rs Cr)	11.10	0.01	4.57	10.41	(5.64)	(7.72)	36.14	48.88	
Actual Heat Rate (kCal/kWh)	2,615	3,198	2,685	2,671	2,648	2,905	2,616	2,678	
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675	
Adjustment for Heat rate	2.49	0.00	0.29	(0.23)	0.02	1.61	(5.77)	(1.58)	
Actual Transit Loss (%)	0.69%	-12.01%	0.13%	0.51%	0.72%	0.00%	0.86%		
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%		
Adjustment for Transit Loss	0.44	0.59	0.13	0.31	0.83	0.74	1.12	4.17	
Net Change in Gen Cost	14.04	0.61	4.99	10.50	(4.79)	(5.37)	31.49	51.46	
Change in cost of generation for Gas Station for the period December 2004									
	Dec.2004								
Gross Generation (MU)	317								
Net Generation (MU)	309								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6810								
Base Variable Cost (Rs/kWh)	0.6742								
Change in Costs (Rs Cr)	0.21								
Actual Heat Rate (kCal/kWh)	2,008								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	(0.44)								
Net Change in Gen Cost	(0.23)								
Change in Total Cost of Generation									
	Dec.2004								
Thermal	51.46								
Gas	(0.23)								
Total	51.24								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period Dec. 2004**

	Total	Dec.04
Net Units Purchased (MU)	1,774	1,774
Actual Variable Cost (Rs. Cr.)	290.98	290.98
Actual Variable Cost (Rs/kWh)	1.6401	1.6401
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.3428	0.3428
Change in Cost (Rs Cr.)	60.81	60.81
Total Change in Variable Cost (Rs Cr.)	60.81	60.81

Change in Fixed cost of power purchase for Dec. 2004

	Total	Dec.04
Actual Capacity Charges	71.46	71.46
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(5.28)	(5.28)

Annexure 3 : Change in Other Costs of Power Purchase

Description	Dec.04
Incentive	4.50
Income Tax	
- NTPC	(7.92)
- NPC	(1.41)
- Kakrapar	-
-Dodson and TAPS	0.08
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	-
PGCIL - other trans. chgs & O&M chgs	(8.76)
Other adjustments	1.25
UI charges & Reactive energy	(0.06)
Total	(12.32)

Change in Fixed Cost of Power Purchase (Dec. 04)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.38	11.14	(0.76)
Vindhyachal I&II	22.76	22.40	0.36
Gandhar	15.77	18.44	(2.67)
Kawas	8.33	9.76	(1.43)
NR Import	-	-	-
ER Import	3.92	-	3.92
SR Import	-	-	-
Power Grid Corp.	10.31	15.00	(4.69)
Total	71.46	76.74	(5.28)

Change in Variable cost of Power purchase (Dec. 04)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	25.90	1,475.91	1.6401	
Vindhyachal I&II	39.69			
Gandhar	12.02			
Kawas	80.80			
Kakrapar	19.86			
PTC	27.80			
NVVN	3.15			
NR Import	-			
ER Import	5.31			
Adani	3.15			
GIL	1.00			
Unscheduled Int.*	28.01			90.64
Tarapur	6.76			65.22
Tata N. P.	28.24	105.23		
Dodson	0.79	3.10		
Ad-hoc purchase	8.51	34.07		
Total	290.98	1,774.19		

FOCA calculations for the month of January 2005		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	69.72	69.72
Cost of generation	56.35	56.35
Fixed Cost of power purchase	(6.51)	(6.51)
Variable Cost of power purchase	60.55	60.55
Other costs of power purchase	(40.68)	(40.68)
Energy Input	5,940	5,940
Generation	4,047	4,047
Power Purchase	1,893	1,893
T&D loss target	26.87%	26.87%
FOCA liable sale	4,344	4,344
FOCA rate (metered sale) paise/kWh		16.05
FOCA rate (metered sale) paise/kWh after rounding off		16.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		15.00
- LT-Ag (<1300 hours per year)		12.00

Annexure 1 : Change in cost of generation								
Change in cost of generation for the period January 2005								
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal
Gross Generation (MU)	576	41	227	579	470	504	1,288	3,686
Net Generation (MU)	527	37	205	527	425	455	1,190	3,365
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.70%
Actual Gen. Cost (Rs Cr)	56.96	4.42	31.63	75.05	49.74	48.59	108.64	375.03
Actual Heat Input	1,492,942	130,572	606,863	1,514,373	1,246,243	1,479,366	3,369,848	9,840,207
Actual Fuel Cost (Rs/MkCal)	381.54	338.21	521.25	495.59	399.13	328.44	322.38	381.12
Coal Cost excl. transit loss (Rs cr)	55.48	4.97	30.22	72.39	47.98	47.19	115.45	373.68
Coal Cost incl. transi loss (Rs. Cr)	55.84	4.32	30.33	72.81	48.36	47.19	107.16	366.01
Actual Variable Cost (Rs/kWh)	1.0807	1.1966	1.5460	1.4239	1.1714	1.0683	0.9127	
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023	
Change in Costs (Rs Cr)	8.67	(0.04)	9.70	5.54	(2.39)	(4.60)	25.04	41.92
Actual Heat Rate (kCal/kWh)	2,592	3,195	2,669	2,615	2,650	2,934	2,616	2,670
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675
Adjustment for Heat rate	2.93	0.01	0.78	1.39	(0.02)	1.03	(4.73)	1.38
Actual Transit Loss (%)	0.65%	-14.94%	0.38%	0.57%	0.79%	0.00%	-7.74%	
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%	
Adjustment for Transit Loss	0.45	0.76	0.18	0.28	0.78	0.69	10.14	13.28
Net Change in Gen Cost	12.05	0.73	10.66	7.21	(1.64)	(2.88)	30.45	56.58
Change in cost of generation for Gas Station for the period January 2005								
	Jan.2005							
Gross Generation (MU)	324							
Net Generation (MU)	316							
Aux. Consumption	2.40%							
Actual Variable Cost (Rs/kWh)	0.6755							
Base Variable Cost (Rs/kWh)	0.6742							
Change in Costs (Rs Cr)	0.04							
Actual Heat Rate (kCal/kWh)	1,991							
Norm - Heat Rate (kCal/kWh)	1,966							
Adjustment for Heat rate	(0.27)							
Net Change in Gen Cost	(0.23)							
Change in Total Cost of Generation								
	Jan.2005							
Thermal	56.58							
Gas	(0.23)							
Total	56.35							

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period Jan. 2005**

	Total	Jan.05
Net Units Purchased (MU)	1,893	1,893
Actual Variable Cost (Rs. Cr.)	306.18	306.18
Actual Variable Cost (Rs/kWh)	1.6171	1.6171
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.3198	0.3198
Change in Cost (Rs Cr.)	60.55	60.55
Total Change in Variable Cost (Rs Cr.)	60.55	60.55

Change in Fixed cost of power purchase for Jan. 2005

	Total	Jan.05
Actual Capacity Charges	70.23	70.23
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(6.51)	(6.51)

Annexure 3 : Change in Other Costs of Power Purchase

Description	Jan.05
Incentive	5.19
Income Tax	
- NTPC	(7.92)
- NPC	(1.41)
- Kakrapar	-
-Dodson and TAPS	0.32
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	9.54
PGCIL - other trans. chgs & O&M chgs	(31.16)
Other adjustments	(15.20)
UI charges & Reactive energy	(0.04)
Total	(40.68)

Change in Fixed Cost of Power Purchase (Jan.05)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.37	11.14	(0.77)
Vindhyachal I&II	22.72	22.40	0.32
Gandhar	14.89	18.44	(3.55)
Kawas	8.32	9.76	(1.44)
NR Import	-	-	-
ER Import	3.73	-	3.73
SR Import	-	-	-
Power Grid Corp.	10.20	15.00	(4.80)
Total	70.23	76.74	(6.51)

Change in Variable cost of Power purchase (Jan.05)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	25.60	1,553.76	1.6171	
Vindhyachal I&II	47.91			
Gandhar	11.36			
Kawas	57.64			
Kakrapar	10.27			
PTC	40.92			
NVVN	14.65			
NR Import	-			
ER Import	5.45			
Adani	22.78			
GIL	-			
Unscheduled Int.*	4.07			10.69
Tarapur	10.40			100.36
Tata N. P.	46.04			187.28
Dodson	1.57			6.14
Ad-hoc purchase	7.52			35.12
Total	306.18	1,893.35		

FOCA calculations for the month of February 2005		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	62.53	62.53
Cost of generation	49.51	49.51
Fixed Cost of power purchase	(8.13)	(8.13)
Variable Cost of power purchase	46.93	46.93
Other costs of power purchase	(25.79)	(25.79)
Energy Input	5,448	5,448
Generation	3,804	3,804
Power Purchase	1,644	1,644
T&D loss target	26.87%	26.87%
FOCA liable sale	3,984	3,984
FOCA rate (metered sale) paise/kWh		15.70
FOCA rate (metered sale) paise/kWh after rounding off		16.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		14.00
- LT-Ag (<1300 hours per year)		12.00

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period February 2005									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	512	18	281	436	443	452	1,288	3,431	
Net Generation (MU)	469	16	253	397	400	408	1,190	3,133	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.68%	
Actual Gen. Cost (Rs Cr)	50.75	2.30	33.27	56.20	47.23	43.49	108.53	341.77	
Actual Heat Input	1,322,338	57,167	750,693	1,136,116	1,172,938	1,343,695	3,369,610	9,152,557	
Actual Fuel Cost (Rs/MkCal)	383.80	403.03	443.13	494.63	402.65	323.65	322.10	373.41	
Coal Cost excl. transit loss (Rs cr)	49.07	2.17	32.24	54.10	45.26	42.43	113.92	339.18	
Coal Cost incl. transit loss (Rs. Cr)	49.43	2.25	32.42	54.73	45.56	42.43	105.30	332.12	
Actual Variable Cost (Rs/kWh)	1.0830	1.4346	1.3132	1.4163	1.1807	1.0671	0.9118		
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023		
Change in Costs (Rs Cr)	7.82	0.37	6.11	3.87	(1.88)	(4.17)	24.93	37.04	
Actual Heat Rate (kCal/kWh)	2,582	3,214	2,667	2,606	2,648	2,974	2,616	2,668	
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675	
Adjustment for Heat rate	2.81	(0.01)	0.85	1.24	0.02	0.32	(4.71)	0.52	
Actual Transit Loss (%)	0.73%	3.57%	0.55%	1.17%	0.65%	0.00%	-8.18%		
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%		
Adjustment for Transit Loss	0.35	(0.02)	0.14	(0.11)	0.80	0.62	10.43	12.21	
Net Change in Gen Cost	10.98	0.33	7.09	4.99	(1.07)	(3.23)	30.65	49.76	
Change in cost of generation for Gas Station for the period February 2005									
	Feb.2005								
Gross Generation (MU)	343								
Net Generation (MU)	335								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6840								
Base Variable Cost (Rs/kWh)	0.6742								
Change in Costs (Rs Cr)	0.33								
Actual Heat Rate (kCal/kWh)	2,017								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	(0.58)								
Net Change in Gen Cost	(0.25)								
Change in Total Cost of Generation									
	Feb.2005								
Thermal	49.76								
Gas	(0.25)								
Total	49.51								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period Feb. 2005**

	Total	Feb.05
Net Units Purchased (MU)	1,644	1,644
Actual Variable Cost (Rs. Cr.)	260.22	260.22
Actual Variable Cost (Rs/kWh)	1.5828	1.5828
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.2855	0.2855
Change in Cost (Rs Cr.)	46.93	46.93
Total Change in Variable Cost (Rs Cr.)	46.93	46.93

Change in Fixed cost of power purchase for Feb. 2005 Feb.05

	Total	Feb.05
Actual Capacity Charges	68.61	68.61
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(8.13)	(8.13)

Annexure 3 : Change in Other Costs of Power Purchase

Description	Feb.05
Incentive	3.87
Income Tax	
- NTPC	(7.92)
- NPC	(1.41)
- Kakrapar	82.34
-Dodson and TAPS	0.10
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	9.57
PGCIL - other trans. chgs & O&M chgs	(7.68)
Other adjustments	(104.61)
UI charges & Reactive energy	(0.05)
Total	(25.79)

Change in Fixed Cost of Power Purchase (Feb.05)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.37	11.14	(0.77)
Vindhyachal I&II	22.75	22.40	0.35
Gandhar	13.10	18.44	(5.34)
Kawas	8.33	9.76	(1.43)
NR Import	-	-	-
ER Import	3.87	-	3.87
SR Import	-	-	-
Power Grid Corp.	10.19	15.00	(4.81)
Total	68.61	76.74	(8.13)

Change in Variable cost of Power purchase (Feb.05)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	23.86	1,363.54	1.5828	
Vindhyachal I&II	37.18			
Gandhar	9.18			
Kawas	39.97			
Kakrapar	18.20			
PTC	25.90			
NVVN	17.30			
NR Import	-			
ER Import	5.65			
Adani	20.28			
GIL	1.39			
Unscheduled Int.*	36.80			128.41
Tarapur	8.90			85.85
Tata N. P.	8.64			37.56
Dodson	0.83	3.26		
Ad-hoc purchase	6.16	25.49		
Total	260.22	1,644.11		

FOCA calculations for the month of March 2005		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	194.84	194.84
Cost of generation	57.13	57.13
Fixed Cost of power purchase	(4.87)	(4.87)
Variable Cost of power purchase	129.18	129.18
Other costs of power purchase	13.41	13.41
Energy Input	6,271	6,271
Generation	4,049	4,049
Power Purchase	2,222	2,222
T&D loss target	26.87%	26.87%
FOCA liable sale	4,586	4,586
FOCA rate (metered sale) paise/kWh		42.49
FOCA rate (metered sale) paise/kWh after rounding off		42.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		39.00
- LT-Ag (<1300 hours per year)		31.00

Annexure 1 : Change in cost of generation									
Change in cost of generation for the period March 2005									
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal	
Gross Generation (MU)	509	16	326	430	481	436	1,363	3,561	
Net Generation (MU)	466	15	293	391	434	394	1,260	3,252	
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.68%	
Actual Gen. Cost (Rs Cr)	51.02	2.39	34.93	56.79	56.17	44.27	123.62	369.19	
Actual Heat Input	1,318,351	54,183	842,327	1,129,662	1,271,141	1,306,913	3,569,317	9,491,894	
Actual Fuel Cost (Rs/MkCal)	387.00	441.65	414.65	502.71	441.85	338.73	346.35	388.95	
Coal Cost excl. transit loss (Rs cr)	48.96	2.00	34.88	54.49	54.15	42.35	120.15	356.97	
Coal Cost incl. transit loss (Rs. Cr)	49.33	2.03	34.32	55.57	54.53	42.35	120.96	359.10	
Actual Variable Cost (Rs/kWh)	1.0954	1.6250	1.1922	1.4508	1.2942	1.1248	0.9813		
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023		
Change in Costs (Rs Cr)	8.35	0.62	3.52	5.17	2.88	(1.76)	35.15	53.92	
Actual Heat Rate (kCal/kWh)	2,590	3,322	2,588	2,626	2,645	2,995	2,618	2,665	
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675	
Adjustment for Heat rate	2.66	(0.09)	1.99	0.80	0.08	0.01	(5.48)	(0.02)	
Actual Transit Loss (%)	0.77%	1.88%	-1.65%	1.95%	0.70%	0.00%	0.67%		
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%		
Adjustment for Transit Loss	0.34	0.01	0.90	(0.55)	0.93	0.62	1.26	3.52	
Net Change in Gen Cost	11.34	0.54	6.41	5.41	3.89	(1.12)	30.94	57.42	
Change in cost of generation for Gas Station for the period March 2005									
	Mar-05								
Gross Generation (MU)	391								
Net Generation (MU)	381								
Aux. Consumption	2.40%								
Actual Variable Cost (Rs/kWh)	0.6789								
Base Variable Cost (Rs/kWh)	0.6742								
Change in Costs (Rs Cr)	0.18								
Actual Heat Rate (kCal/kWh)	2,002								
Norm - Heat Rate (kCal/kWh)	1,966								
Adjustment for Heat rate	(0.47)								
Net Change in Gen Cost	(0.29)								
Change in Total Cost of Generation									
	Mar-05								
Thermal	57.42								
Gas	(0.29)								
Total	57.13								

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period March 2005**

	Total	Mar-05
Net Units Purchased (MU)	2,222	2,222
Actual Variable Cost (Rs. Cr.)	417.49	417.49
Actual Variable Cost (Rs/kWh)	1.8785	1.8785
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.5812	0.5812
Change in Cost (Rs Cr.)	129.18	129.18
Total Change in Variable Cost (Rs Cr.)	129.18	129.18

Change in Fixed cost of power purchase for March 2005

	Total	Mar-05
Actual Capacity Charges	71.87	71.87
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(4.87)	(4.87)

Annexure 3 : Change in Other Costs of Power Purchase

Description	Mar-05
Incentive	4.44
Income Tax	
- NTPC	(7.92)
- NPC	(1.41)
- Kakrapar	-
-Dodson and TAPS	(0.14)
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	9.90
PGCIL - other trans. chgs & O&M chgs	(0.70)
Other adjustments	9.27
UI charges & Reactive energy	(0.03)
Total	13.41

Change in Fixed Cost of Power Purchase (March05)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.36	11.14	(0.78)
Vindhyachal I&II	22.73	22.40	0.33
Gandhar	16.37	18.44	(2.07)
Kawas	8.32	9.76	(1.44)
NR Import	-	-	-
ER Import	3.90	-	3.90
SR Import	-	-	-
Power Grid Corp.	10.19	15.00	(4.81)
Total	71.87	76.74	(4.87)

Change in Variable cost of Power purchase (March05)

	Actual	Power purch (MUs)	Var. cost (Rs./kWh)	
	Var. Cost			
	(Rs. cr.)			
Korba	25.92	1,721.73	1.8785	
Vindhyachal I&II	43.49			
Gandhar	12.43			
Kawas	125.33			
Kakrapar	20.45			
PTC	28.54			
NVVN	19.03			
NR Import	-			
ER Import	6.44			
Adani	27.81			
GIL	-			
Unscheduled Int.*	58.15			232.74
Tarapur	10.94			105.55
Tata N. P.	34.57			144.03
Dodson	0.53			2.08
Ad-hoc purchase	3.86			16.32
Total	417.49	2,222.45		

FOCA calculations for the month of April 2005		
	Total	FOCA to be levied over one month
Summary - Total FOCA to be charged		
FOCA (Rs. cr.)	214.81	214.81
Cost of generation	48.92	48.92
Fixed Cost of power purchase	(11.35)	(11.35)
Variable Cost of power purchase	138.65	138.65
Other costs of power purchase	3.59	3.59
TOSE(1st Instt)	35.00	35.00
Energy Input	6,118	6,118
Generation	4,085	4,085
Power Purchase	2,032	2,032
T&D loss target	26.87%	26.87%
FOCA liable sale	4,474	4,474
FOCA rate (metered sale) paise/kWh		48.01
FOCA rate (metered sale) paise/kWh after rounding off		48.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		44.00
- LT-Ag (<1300 hours per year)		35.00

Annexure 1 : Change in cost of generation								
Change in cost of generation for the period April 2005								
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal
Gross Generation (MU)	514	41	290	398	441	511	1,482	3,677
Net Generation (MU)	470	37	261	362	398	461	1,369	3,359
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.65%
Actual Gen. Cost (Rs Cr)	50.46	5.10	32.96	53.00	44.93	48.76	133.76	368.98
Actual Heat Input	1,363.076	132.268	766.766	1,054.549	1,167.958	1,529.325	3,867.902	9,881.844
Actual Fuel Cost (Rs/MkCal)	370.22	385.91	429.87	502.54	384.72	318.85	345.83	373.40
Coal Cost excl. transit loss (Rs cr)	48.98	4.98	31.92	51.10	43.19	47.38	131.32	358.88
Coal Cost incl. transit loss (Rs. Cr)	49.37	4.98	31.79	51.61	43.54	47.38	132.10	360.79
Actual Variable Cost (Rs/kWh)	1.0726	1.3641	1.2614	1.4647	1.1283	1.0586	0.9771	
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023	
Change in Costs (Rs Cr)	7.36	0.59	4.95	5.28	(3.96)	(5.11)	37.62	46.73
Actual Heat Rate (kCal/kWh)	2,651	3,192	2,641	2,652	2,648	2,995	2,611	2,688
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675
Adjustment for Heat rate	1.41	0.01	1.17	0.21	0.01	0.02	(5.57)	(2.73)
Actual Transit Loss (%)	0.79%	0.13%	-0.40%	0.99%	0.80%	0.00%	0.59%	
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%	
Adjustment for Transit Loss	0.32	0.12	0.44	(0.01)	0.70	0.70	1.49	3.76
Net Change in Gen Cost	9.09	0.73	6.56	5.48	(3.26)	(4.39)	33.54	47.75
Change in cost of generation for Gas Station for the period April 2005								
	Apr-05							
Gross Generation (MU)	322							
Net Generation (MU)	314							
Aux. Consumption	2.40%							
Actual Variable Cost (Rs/kWh)	0.7347							
Base Variable Cost (Rs/kWh)	0.6742							
Change in Costs (Rs Cr)	1.90							
Actual Heat Rate (kCal/kWh)	2,031							
Norm - Heat Rate (kCal/kWh)	1,966							
Adjustment for Heat rate	(0.73)							
Net Change in Gen Cost	1.17							
Change in Total Cost of Generation								
	Apr-05							
Thermal	47.75							
Gas	1.17							
Total	48.92							

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period April05**

	Total	Apr-05
Net Units Purchased (MU)	2,032	2,032
Actual Variable Cost (Rs. Cr.)	402.31	402.31
Actual Variable Cost (Rs/kWh)	1.9795	1.9795
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.6822	0.6822
Change in Cost (Rs Cr.)	138.65	138.65
Total Change in Variable Cost (Rs Cr.)	138.65	138.65

Change in Fixed cost of power purchase for April05

	Total	Apr-05
Actual Capacity Charges	65.39	65.39
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(11.35)	(11.35)

Annexure 3 : Change in Other Costs of Power Purchase

Description	Apr-05
Incentive	3.64
Income Tax	
- NTPC	(7.92)
- NPC	(1.41)
- Kakrapar	-
-Dodson and TAPS	0.51
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	15.45
PGCIL - other trans. chgs & O&M chgs	(10.32)
Other adjustments	3.66
UI charges & Reactive energy	(0.03)
Total	3.59

Change in Fixed Cost of Power Purchase(April05)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.36	11.14	(0.78)
Vindhyachal I&II	22.72	22.40	0.32
Gandhar	11.20	18.44	(7.24)
Kawas	7.30	9.76	(2.46)
NR Import	-	-	-
ER Import	3.52	-	3.52
SR Import	-	-	-
Power Grid Corp.	10.29	15.00	(4.71)
Total	65.39	76.74	(11.35)

Change in Variable cost of Power purchase (April05)

	Actual	Power purch (MUs)	Var. cost (Rs./kWh)	
	Var. Cost			
	(Rs. cr.)			
Korba	23.62	1,625.31	1.9795	
Vindhyachal I&II	43.49			
Gandhar	9.76			
Kawas	126.45			
Kakrapar	19.28			
PTC	0.09			
NVVN	-			
NR Import	-			
ER Import	4.98			
Adani	65.71			
GIL	-			
Unscheduled Int.*	71.20			192.43
Tarapur	10.65			102.75
Tata N. P.	22.09			92.74
Dodson	0.71	2.89		
Ad-hoc purchase	4.29	16.32		
Total	402.31	2,032.43		

FOCA calculations for the month of May 2005		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	176.51	176.51
Cost of generation	55.33	55.33
Fixed Cost of power purchase	(5.36)	(5.36)
Variable Cost of power purchase	112.65	112.65
Other costs of power purchase	(25.91)	(25.91)
TOSE(2nd Instt)	35.00	35.00
Umpire & Post Umpire Settlement for claim relating to the period 1.4.95 to 30.9.01 which were securitised in 2003-04 for Khaparkheda Station	4.79	4.79
Energy Input	6,348	6,348
Generation	4,298	4,298
Power Purchase	2,049	2,049
T&D loss target	26.87%	26.87%
FOCA liable sale	4,642	4,642
FOCA rate (metered sale) paise/kWh		38.02
FOCA rate (metered sale) paise/kWh after rounding off		38.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		34.00
- LT-Ag (<1300 hours per year)		28.00

Annexure 1 : Change in cost of generation								
Change in cost of generation for the period May 2005								
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal
Gross Generation (MU)	558	38	311	397	486	540	1,504	3,835
Net Generation (MU)	510	35	280	362	438	487	1,390	3,502
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.67%
Actual Gen. Cost (Rs Cr)	53.76	4.82	36.61	57.00	52.00	52.28	133.39	389.85
Actual Heat Input	1,454,278	122,641	830,331	1,055,152	1,285,199	1,618,803	3,930,774	10,297,178
Actual Fuel Cost (Rs/MkCal)	369.64	392.65	440.96	540.17	404.61	322.94	339.34	378.60
Coal Cost excl. transit loss (Rs cr)	51.86	4.62	35.13	54.62	50.23	50.30	131.50	378.25
Coal Cost incl. transit loss (Rs. Cr)	52.74	4.74	35.27	55.24	50.56	50.30	132.17	381.01
Actual Variable Cost (Rs/kWh)	1.0533	1.3891	1.3071	1.5764	1.1861	1.0725	0.9598	
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023	
Change in Costs (Rs Cr)	7.00	0.63	6.58	9.31	(1.83)	(4.73)	35.79	52.76
Actual Heat Rate (kCal/kWh)	2,607	3,195	2,668	2,656	2,647	2,996	2,614	2,685
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675
Adjustment for Heat rate	2.43	0.01	0.92	0.16	0.04	0.01	(5.70)	(2.13)
Actual Transit Loss (%)	1.67%	2.47%	0.38%	1.13%	0.65%	0.00%	0.51%	
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%	
Adjustment for Transit Loss	(0.12)	0.01	0.21	(0.09)	0.88	0.74	1.60	3.23
Net Change in Gen Cost	9.31	0.65	7.72	9.38	(0.91)	(3.98)	31.70	53.86
Change in cost of generation for Gas Station for the period May 2005								
	May-05							
Gross Generation (MU)	387							
Net Generation (MU)	378							
Aux. Consumption	2.40%							
Actual Variable Cost (Rs/kWh)	0.7641							
Base Variable Cost (Rs/kWh)	0.6742							
Change in Costs (Rs Cr)	3.39							
Actual Heat Rate (kCal/kWh)	2,106							
Norm - Heat Rate (kCal/kWh)	1,966							
Adjustment for Heat rate	(1.92)							
Net Change in Gen Cost	1.48							
Change in Total Cost of Generation								
	May-05							
Thermal	53.86							
Gas	1.48							
Total	55.33							

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period May05**

	Total	May-05
Net Units Purchased (MU)	2,049	2,049
Actual Variable Cost (Rs. Cr.)	378.51	378.51
Actual Variable Cost (Rs/kWh)	1.8470	1.8470
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.5497	0.5497
Change in Cost (Rs Cr.)	112.65	112.65
Total Change in Variable Cost (Rs Cr.)	112.65	112.65

Change in Fixed cost of power purchase for May05

	Total	May-05
Actual Capacity Charges	71.38	71.38
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(5.36)	(5.36)

Annexure 3 : Change in Other Costs of Power Purchase

Description	May-05
Incentive	1.15
Income Tax	
- NTPC	(6.76)
- NPC	(1.41)
- Kakrapar	-
-Dodson and TAPS	-
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	16.00
PGCIL - other trans. chgs & O&M chgs	(10.23)
Other adjustments	(24.66)
UI charges & Reactive energy	(0.00)
Total	(25.91)

Change in Fixed Cost of Power Purchase(May I05)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.49	11.14	(0.65)
Vindhyachal I&II	22.97	22.40	0.57
Gandhar	15.10	18.44	(3.34)
Kawas	7.40	9.76	(2.36)
NR Import	-	-	-
ER Import	4.72	-	4.72
SR Import	-	-	-
Power Grid Corp.	10.70	15.00	(4.30)
Total	71.38	76.74	(5.36)

Change in Variable cost of Power purchase (May05)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	24.27	1,776.27	1.8470	
Vindhyachal I&II	35.53			
Gandhar	13.92			
Kawas	95.87			
Kakrapar	20.70			
PTC	30.75			
NVVN	5.53			
NR Import	-			
ER Import	6.80			
Adani	51.84			
TPTCL	28.22			
Unscheduled Int.*	26.56			60.23
Tarapur	10.44			100.71
Tata N. P.	18.92			79.73
Dodson	0.39	1.59		
Ad-hoc purchase	8.79	30.86		
Total	378.51	2,049.37		

FOCA calculations for the month of June 2005		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	53.29	53.29
Cost of generation	76.33	76.33
Fixed Cost of power purchase	(5.68)	(5.68)
Variable Cost of power purchase	(5.82)	(5.82)
Other costs of power purchase	(56.57)	(56.57)
TOSE(3 rd Instt)	37.74	37.74
Entry Tax	2.50	2.50
Umpire & Post Umpire Settlement for claim relating to the period 1.4.95 to 30.9.01 which were securitised in 2003-04 for Khaparkheda Station	4.79	4.79
Energy Input	5,734	5,734
Generation	3,992	3,992
Power Purchase	1,742	1,742
T&D loss target	26.87%	26.87%
FOCA liable sale	4,193	4,193
FOCA rate (metered sale) paise/kWh		12.71
FOCA rate (metered sale) paise/kWh after rounding off		13.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		12.00
- LT-Ag (<1300 hours per year)		9.00

Annexure 1 : Change in cost of generation

Change in cost of generation for the period June 2005

A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal
Gross Generation (MU)	513	40	302	475	459	513	1,413	3,715
Net Generation (MU)	470	36	271	433	414	462	1,305	3,392
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.68%
Actual Gen. Cost (Rs Cr)	50.71	4.99	41.01	70.08	55.35	52.85	130.07	405.06
Actual Heat Input	1,333,135	128,339	821,126	1,240,515	1,214,945	1,535,822	3,690,300	9,964,182
Actual Fuel Cost (Rs/MkCal)	380.40	388.90	499.41	564.94	455.60	344.11	352.45	406.52
Coal Cost excl. transit loss (Rs cr)	47.84	4.77	35.98	66.55	50.90	48.51	128.42	382.97
Coal Cost incl. transit loss (Rs. Cr)	48.20	4.90	36.73	67.39	52.94	48.42	129.09	387.67
Actual Variable Cost (Rs/kWh)	1.0794	1.3749	1.5105	1.6197	1.3358	1.1429	0.9965	
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023	
Change in Costs (Rs Cr)	7.67	0.61	11.90	13.02	4.48	(1.23)	38.40	74.84
Actual Heat Rate (kCal/kWh)	2,596	3,193	2,722	2,609	2,648	2,996	2,612	2,682
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675
Adjustment for Heat rate	2.51	0.01	0.19	1.45	0.03	0.00	(5.49)	(1.29)
Actual Transit Loss (%)	0.75%	2.67%	2.07%	1.24%	3.84%	-0.18%	0.51%	
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%	
Adjustment for Transit Loss	0.34	(0.00)	(0.40)	(0.19)	(0.76)	0.80	1.56	1.34
Net Change in Gen Cost	10.52	0.62	11.70	14.28	3.74	(0.43)	34.46	74.89

Change in cost of generation for Gas Station for the period June 2005

	Jun-05
Gross Generation (MU)	373
Net Generation (MU)	364
Actual Variable Cost (Rs/kWh)	0.7338
Base Variable Cost (Rs/kWh)	0.6742
Change in Costs (Rs Cr)	2.17
Actual Heat Rate (kCal/kWh)	2,021
Norm - Heat Rate (kCal/kWh)	1,966
Adjustment for Heat rate	(0.73)
Net Change in Gen Cost	1.44

Change in Total Cost of Generation

	Jun-05
Thermal	74.89
Gas	1.44
Total (Rs.Crores)	76.33

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period JUNE2005**

	Total	Jun-05
Net Units Purchased (MU)	1,742	1,742
Actual Variable Cost (Rs. Cr.)	220.20	220.20
Actual Variable Cost (Rs/kWh)	1.2639	1.2639
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	(0.0334)	(0.0334)
Change in Cost (Rs Cr.)	(5.82)	(5.82)
Total Change in Variable Cost (Rs Cr.)	(5.82)	(5.82)

Actual Capacity Charges	71.06	71.06
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(5.68)	(5.68)

Description	Jun-05
Incentive	2.56
Income Tax	
- NTPC	7.46
- NPC	(1.41)
- Kakrapar	-
- Recovery Chgs 01-02 & 04-05	(59.20)
- ER power	-
- Re imbursement of ER IT for 00-01 & 03-04	0.38
PGCIL - other trans. chgs & O&M chgs	(0.22)
Other adjustments	(6.14)
UI charges & Reactive energy	(0.01)
Total	(56.57)

Change in Fixed Cost of Power Purchase(June2005)

	Capacity charges		
	Actual (Rs cr)	Approved (Rs cr)	FOCA (Rs cr)
Korba	10.07	11.14	(1.07)
Vindhyachal I&II	22.67	22.40	0.27
Gandhar	14.58	18.44	(3.86)
Kawas	7.70	9.76	(2.06)
NR Import	-	-	-
ER Import	5.08	-	5.08
SR Import	-	-	-
Power Grid Corp.	10.96	15.00	(4.04)
Total	71.06	76.74	(5.68)

Change in Variable cost of Power purchase (June2005)

	Actual		Power purch (MUs)	Var. cost (Rs./kWh)
	Var. Cost (Rs. cr.)			
Korba	21.66		1,567.00	1.2639
Vindhyachal I&II	39.60			
Gandhar	18.88			
Kawas	25.25			
Kakrapar	20.18			
PTC	2.46			
NVVN	0.37			
NR Import	-			
ER Import	6.73			
Adani	30.66			
TPTCL	24.02			
Unscheduled Int. *	(1.49)	(4.72)		
Tarapur	11.47	116.24		
Tata N. P.	6.96	30.28		
Dodson	0.08	0.32		
RETCL	3.06			
Ad-hoc purchase	10.30	33.10		
Total	220.20	1,742.22		

FOCA calculations for the month of July 2005		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	82.85	82.85
Cost of generation	86.69	86.69
Fixed Cost of power purchase	(6.33)	(6.33)
Variable Cost of power purchase	48.80	48.80
Other costs of power purchase	(56.22)	(56.22)
TOSE	7.72	7.72
Special Allowance		-
Dearness Allowance	(2.60)	(2.60)
Umpire & Post Umpire Settlement for claim relating to the per	4.79	4.79
Energy Input	5,046	5,046
Generation	3,219	3,219
Power Purchase	1,827	1,827
T&D loss target	26.87%	26.87%
FOCA liable sale	3,752	3,752
FOCA rate (metered sale) paise/kWh		22.08
FOCA rate (metered sale) paise/kWh after rounding off		22.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		20.00
- LT-Ag (<1300 hours per year)		16.00

Annexure 1 : Change in cost of generation

Change in cost of generation for the period July 2005

A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal
Gross Generation (MU)	391	43	214	447	372	410	965	2,841
Net Generation (MU)	358	39	192	407	336	370	891	2,593
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.75%
Actual Gen. Cost (Rs Cr)	40.96	5.38	31.94	79.39	55.61	42.44	90.02	345.74
Actual Heat Input	1,031,265	137,020	576,717	1,178,946	998,198	1,201,944	2,524,039	7,648,129
Actual Fuel Cost (Rs/MkCal)	397.16	392.77	553.76	673.43	557.12	353.12	356.64	452.06
Coal Cost excl. transit loss (Rs cr)	34.07	5.20	26.29	74.86	47.07	38.95	81.97	308.41
Coal Cost incl. transit loss (Rs. Cr)	34.75	5.30	29.62	75.75	48.86	38.85	82.54	315.67
Actual Variable Cost (Rs/kWh)	1.1436	1.3917	1.6614	1.9526	1.6572	1.1472	1.0098	
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023	
Change in Costs (Rs Cr)	8.14	0.72	11.33	25.77	14.41	(0.82)	27.41	86.96
Actual Heat Rate (kCal/kWh)	2,635	3,199	2,700	2,639	2,686	2,930	2,616	2,692
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675
Adjustment for Heat rate	1.40	0.00	0.41	0.74	(0.77)	0.95	(3.93)	(1.19)
Actual Transit Loss (%)	1.96%	1.97%	11.25%	1.17%	3.67%	-0.28%	0.69%	
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%	
Adjustment for Transit Loss	(0.18)	0.03	(3.04)	(0.16)	(0.62)	0.68	0.85	(2.44)
Net Change in Gen Cost	9.37	0.75	8.70	26.35	13.02	0.80	24.33	83.32

Change in cost of generation for Gas Station for the period July 2005

	Jul-05
Gross Generation (MU)	327
Net Generation (MU)	319
Aux. Consumption	2.40%
Actual Gen. Cost (Rs Cr)	26.91
Actual Heat Input	668,335
Actual Fuel Cost (Rs/MkCal)	402.71
Actual Variable Cost (Rs/kWh)	0.8112
Base Variable Cost (Rs/kWh)	0.6742
Change in Costs (Rs Cr)	4.37
Actual Heat Rate (kCal/kWh)	2,043
Norm - Heat Rate (kCal/kWh)	1,966
Adjustment for Heat rate	(1.01)
Net Change in Gen Cost	3.36

Change in Total Cost of Generation

	Jul-05
Thermal	83.32
Gas	3.36
Total (Rs.Crores)	86.69

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period JULY2005**

	Total	Jul-05
Net Units Purchased (MU)	1,827	1,827
Actual Variable Cost (Rs. Cr.)	285.82	285.82
Actual Variable Cost (Rs/kWh)	1.5644	1.5644
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	0.2671	0.2671
Change in Cost (Rs Cr.)	48.80	48.80
Total Change in Variable Cost (Rs Cr.)	48.80	48.80

Change in Fixed cost of power purchase for JULY2005

	Total	Jul-05
Actual Capacity Charges	70.41	70.41
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(6.33)	(6.33)

Annexure 3 : Change in Other Costs of Power Purchase

Description	Jul-05
Incentive	0.73
Income Tax	
- NTPC	(1.71)
- NPC	(1.41)
- Kakrapar	-
- Credit for Revision of CC,EC and Incentives for May 2000 to March 2003	(45.17)
- ER and NR	(0.12)
- Revision of CC for 04-05,03-04,02-03	(5.86)
- Revision for June (ER and WR)	1.64
PGCIL - other trans. chgs & O&M chgs	(0.24)
Other adjustments	(3.97)
UI charges & Reactive energy	(0.11)
Total	(56.22)

Change in Fixed Cost of Power Purchase(July2005)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.20	11.14	(0.94)
Vindhyachal I&II	23.04	22.40	0.64
Gandhar	13.75	18.44	(4.69)
Kawas	7.80	9.76	(1.96)
NR Import	-	-	-
ER Import	4.73	-	4.73
SR Import	-	-	-
Power Grid Corp.	10.90	15.00	(4.10)
Total	70.41	76.74	(6.33)

Change in Variable cost of Power purchase (July2005)

	Actual			
	Var. Cost	Power purch	Var. cost	
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	20.97	1,523.04	1.5644	
Vindhyachal I&II	42.00			
Gandhar	18.11			
Kawas	7.26			
Kakrapar	21.14			
PTC	54.11			
NVVN	-			
NR Import	-			
ER Import	8.01			
Adani	8.72			
TPTCL	2.32			
Unscheduled Int.*	63.54			303.98
Tarapur	11.62			
Tata N. P.	14.53			
Dodson	1.38			
RETCL	-			
Ad-hoc purchase	12.10			
Total	285.82	1,827.02		

FOCA calculations for the month of August 2005		
	Total	FOCA to
Summary - Total FOCA to be charged		be levied over
		one month
FOCA (Rs. cr.)	56.55	56.55
Cost of generation	122.44	122.44
Fixed Cost of power purchase	(10.01)	(10.01)
Variable Cost of power purchase	(0.45)	(0.45)
Other costs of power purchase	(63.14)	(63.14)
TOSE	7.72	7.72
		-
Energy Input	5,370	5,370
Generation	3,569	3,569
Power Purchase	1,801	1,801
T&D loss target	26.87%	26.87%
FOCA liable sale	3,927	3,927
FOCA rate (metered sale) paise/kWh		14.40
FOCA rate (metered sale) paise/kWh after rounding off		7.00
FOCA rate (unmetered sale) Rs/hp/month		
- LT-Ag (>1300 hours per year)		13.00
- LT-Ag (<1300 hours per year)		11.00

Annexure 1 : Change in cost of generation								
Change in cost of generation for the period August 2005								
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total Thermal
Gross Generation (MU)	382	42	133	338	387	463	911	2,657
Net Generation (MU)	350	38	120	307	350	418	842	2,425
Aux. Consumption	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%	8.75%
Actual Gen. Cost (Rs Cr)	42.49	5.37	21.32	45.96	57.23	49.96	84.41	306.73
Actual Heat Input	979,542	134,008	367,222	892,080	1,037,824	1,360,885	1,384,855	6,156,416
Actual Fuel Cost (Rs/MkCal)	433.76	400.53	580.61	515.17	551.40	367.13	609.49	498.22
Coal Cost excl. transit loss (Rs cr)	36.29	5.04	16.93	41.56	47.94	45.42	75.31	268.49
Coal Cost incl. transit loss (Rs. Cr)	38.75	5.12	19.84	42.55	49.56	45.52	75.80	277.13
Actual Variable Cost (Rs/kWh)	1.2146	1.4175	1.7810	1.4962	1.6354	1.1954	1.0022	
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023	
Change in Costs (Rs Cr)	10.44	0.80	8.49	5.45	14.26	1.08	25.26	65.77
Actual Heat Rate (kCal/kWh)	2,562	3,196	2,761	2,643	2,678	2,937	1,519	2,317
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675
Adjustment for Heat rate	2.70	0.01	(0.20)	0.35	(0.63)	1.01	54.59	57.83
Actual Transit Loss (%)	6.36%	1.52%	14.65%	2.32%	3.27%	0.21%	0.65%	
Norm - Transit Loss (%)	1.45%	2.58%	0.98%	0.96%	2.40%	1.47%	1.72%	
Adjustment for Transit Loss	(1.90)	0.05	(2.71)	(0.58)	(0.43)	0.57	0.81	(4.18)
Net Change in Gen Cost	11.24	0.86	5.58	5.22	13.21	2.66	80.66	119.43
Change in cost of generation for Gas Station for the period August 2005								
	Aug-05							
Gross Generation (MU)	223							
Net Generation (MU)	218							
Aux. Consumption	2.40%							
Actual Variable Cost (Rs/kWh)	0.8584							
Base Variable Cost (Rs/kWh)	0.6742							
Change in Costs (Rs Cr)	4.01							
Actual Heat Rate (kCal/kWh)	2,077							
Norm - Heat Rate (kCal/kWh)	1,966							
Adjustment for Heat rate	(1.00)							
Net Change in Gen Cost	3.01							
Change in Total Cost of Generation								
	Aug-05							
Thermal	119.43							
Gas	3.01							
Total	122.44							

Annexure 2 : Change in Costs of Power Purchase**Change in Variable cost of power purchase for the period August2005**

	Total	Aug-05
Net Units Purchased (MU)	1,801	1,801
Actual Variable Cost (Rs. Cr.)	233.14	233.14
Actual Variable Cost (Rs/kWh)	1.2948	1.2948
Wt. Avg. Base Variable Cost (Rs/kWh)	1.2973	1.2973
Change in Cost (Rs/kWh)	(0.0025)	(0.0025)
Change in Cost (Rs Cr.)	(0.45)	(0.45)
Total Change in Variable Cost (Rs Cr.)	(0.45)	(0.45)

Change in Fixed cost of power purchase for August2005

	Total	Aug-05
Actual Capacity Charges	66.73	66.73
Approved Capacity Charges	76.74	76.74
Total Change in Fixed Cost	(10.01)	(10.01)

Annexure 3 : Change in Other Costs of Power Purchase

Description		Aug-05
Incentive		(0.25)
Income Tax		
- NTPC		(7.92)
- NPC		(1.41)
- Kakrapar		-
-Dodson and TAPS		-
- ER power		-
- Re imbursement of ER IT for 00-01 & 03-04		(0.01)
PGCIL - other trans. chgs & O&M chgs		(0.00)
Other adjustments		(53.41)
UI charges & Reactive energy		(0.15)
Total		(63.14)

Change in Fixed Cost of Power Purchase(August 2005)

	Capacity charges		
	Actual	Approved	FOCA
	(Rs cr)	(Rs cr)	(Rs cr)
Korba	10.14	11.14	(1.00)
Vindhyachal I&II	22.87	22.40	0.47
Gandhar	13.50	18.44	(4.94)
Kawas	7.76	9.76	(2.00)
NR Import		-	-
ER Import	1.56	-	1.56
SR Import		-	-
Power Grid Corp.	10.89	15.00	(4.11)
Total	66.73	76.74	(10.01)

Change in Variable cost of Power purchase (August 2005)

	Actual			
	Var. Cost	Power purch		Var. cost
	(Rs. cr.)	(MUs)	(Rs./kWh)	
Korba	21.54	1,512.66	1.2948	
Vindhyachal I&II	38.31			
Gandhar	17.93			
Kawas	6.37			
Kakrapar	18.48			
PTC	41.20			
NVVN				
NR Import	-			
ER Import	8.78			
Adani	17.44			
TPTCL	1.32			
Unscheduled Int.*	26.34			86.61
Tarapur	11.39			112.77
Tata N. P.	2.39			10.39
Dodson	2.63			10.67
RETCL				
Ad-hoc purchase	19.03	67.49		
Total	233.14	1,800.60		