

The Managing Director,

Maharashtra State Electricity Distribution Company Ltd.,
5th Floor, Prakashgad, Plot No. G-9,
Bandra (East),
Mumbai – 400 051.

Sub : Levy of Fuel Adjustment Charges (FAC) by MSEDCL for the month of March 2006.

Ref : 1) MSEDCL Letters No. SE/TRC/12160 dated 16.05.2006 and No. SE/TRC/13769 dated 26.05.2006
2) SICOM Letter No. IAG/MERC/MSEDCL/FAC/March 06/06-07 dated 31.5.2006
3) MERC Letter No. MERC/ MSEDCL/FAC/940 dated 5.5.2006 on Levy of FAC for October, 2005 to February, 2006
4) MSEDCL Letter No. SE/TRC/13679 dated 25.05.2006

Sir,

I am directed to forward herewith the detailed vetting and approval of the Commission on FAC charges for the month of March 2006. The Commission hereby approves recoverable FAC amount of Rs.244.26 crore and FAC rate @ 62 paise/unit for March 2006 to be billed in the month of June 2006.

The Commission vide its letter dated 5th May, 2006 has earlier conveyed the details of the under recovery of Rs. 452.43 Crore arrived at for the months of October, 2005 to February, 2006, interest allowed on the under recovery amount and recovery of the same in the billing months of July, 2006 to September, 2006. It has been observed by the Commission that you have billed an actual amount of Rs.194.36 crore in the month of March 2006 as against estimated amount of Rs. 157.46 crore considered by the Commission while arriving at under recovery for the period September 2005 to January 2006. As the actual billed amount in the month of March 2006 is more by Rs. 36.90 crore than the estimated billed amount, the Commission has revised the under recovery for the period September 2005 to January 2006 to Rs. 415.53 crore as against Rs. 452.43 crore, the details are given in Table A.

Further as requested vide your letter dated 25th May, 2006 from Director (operations), the Commission has agreed for recovery of un recovered FAC for the period October, 2005 to February, 2006 in the billing months of June 2006, July 2006 and August 2006. The reduction in under recovery amount and change of billing months have resulted in reduction in interest to be recovered from the consumers to Rs.9.81 crore as against interest of Rs.12.81 crore computed earlier. The details are given in Table B & C. Hence the total amount to be recovered in billing month of June 2006 is worked out at Rs.390.50 crore (98 paise per unit) as detailed below :-

Ref. No. MERC/MSEDCL/FAC/1199

1st June, 2006

Particulars	Rs. Crore
FAC of March 2006 net of T&D loss	244.26
1 st installment of under recovery of Rs.415.53 crore	138.51
Interest on under recovery for the period September 2005 to January 2006	7.73
Total amount	390.50
FAC rate	98 paise /unit

Further, vide your letter dated 25th May, 2006 it was submitted that the interest allowed to be recovered should be as per the Regulations instead of 6% considered by the Commission as given in the letter dated 5th May, 2006. Your attention is drawn to the page 10 of the Commission's letter dated 5th May, 2006 wherein, it has been clearly mentioned that as per Section 62(6) of the Electricity Act, 2003, **"If any licensee or a Generating Company recovers a price or charge exceeding the Tariff determined under this section, the excess amount shall be recoverable by the person who has paid such price or charge along with interest equivalent to the bank rate without prejudice to any other liability incurred by the licensee"**. As the Section 62 (6) refers to the interest to be charged in case of over recovery, the Commission has considered the same rate for under recovery.

With regards,

Yours faithfully,

(M.K. Kundu),
Director

Encl : Detailed vetting & approval of the Commission on FAC (Pages 31)

Cc: The Director (Operations)
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Cc: The Supdt Engineer (TRC)
Maharashtra State Electricity Distribution Co. Ltd.,
Bandra (East), Mumbai 400 051.

Ref. No. MERC/MSEDCL/FAC/1199

1st June, 2006

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Detailed Vetting Report
MSEDCL, FAC Charges for the period March, 2006.
Attachment to letter No. MERC/MSEDCL/FAC/1199 dated 1st June 2006

1. The Commission vide its letter dated 24th February 2006 has approved FAC charges for the month of September 2005 based on the Tariff Order dated 10th March 2004 and MERC (Terms and Conditions of Tariff) Regulations 2005. In the said letter, the Commission has given approved variable fuel cost to be considered for FAC calculations as against the variable cost of generation indicated in the Tariff Order.

2. Further, the Commission has issued a detailed Order in the matter of MSEDCL petition for review of regulations relating to FAC Formula dated 21st March, 2006, salient features of which are as below :-
 - i) The Commission has allowed the cost of power purchase from Kawas Station of NTPC to be allowed under FAC mechanism to mitigate the need for additional load shedding in the prevailing emergency situation of supply shortfall.
 - ii) The Commission has directed to consider the normative fixed cost as 69.6 paise / kWh based on the tariff order for FY. 2003-04 for arriving at the per unit variable cost for the sources of power purchase for which break up of fixed and variable cost is not available. The Commission has directed to deduct this normative fixed cost from the total cost per unit for the sources for which break up is not available such as Traders, bi-lateral sources, TPC and CPP, while estimating the change in fuel cost to be recovered through FAC.
 - iii) The Commission directed MSEDCL to submit a petition for post facto approval of short term power purchase for the period October 2005 to March 2006 and submit a separate petition for prior approval of short term power purchase of the next quarter i.e. April 2006 to June 2006 by 25th March, 2006.

3. The Commission vide its letter dated 5th May, 2006 while giving its permission to MSEDCL to levy FAC charges pertaining to the month of February, 2006 has directed MSEDCL to submit its FAC claim pertaining to the month of March, 2006 before 15th May, 2006.

MSEDCL vide its letter dated 16th May, 2006 has forwarded FAC submissions for the month of March, 06 based on the provisional power purchase details (60 paise/unit for metered sales). Subsequently, it has vide its letter dated 26th May, 2006 submitted revised FAC submissions (62 paise/unit for metered sales).

Accordingly, Commission has carried out its FAC vetting for March 2006 based on the following :-

- Tariff Order dated 10th March, 2004
- MERC (Terms and Conditions of Tariff) Regulations 2005
- Commission's letter dated 24th February 2006 approving FAC charges for the month of September 2005
- Commission's Order dated 21st March, 2006

Analysis of FAC proposal submitted by MSEDCL and computation of FAC charges for March, 2006 is as below :

i) **Variable cost of generation :**

a. MSEDCL has made the FAC submissions for the march, 2006 in the Standard Formats prescribed by the Commission vide its letter dated 22nd August, 2005

b. MSEDCL has submitted selected Tables of the FAC Formats pertaining to variable cost of power generation certified by Chartered Accountant. **The Commission directs MSEDCL to forward all the data along with calculations in all the Tables of FAC Formats to be certified by Chartered Accountant for the month of March, 2006 within 15 days of date of this letter. Further, in future, entire data of FAC formats and the calculations thereof will have to be certified by Chartered Accountant.**

c. **Variable Fuel Cost :**

MSEDCL has considered the base variable fuel cost as given by the Commission in its letter dated 24th February 2006.

MSEDCL has not submitted sample bills for the fuel purchased along with the FAC submissions as directed by the Commission vide its letter dated 5th May, 2005. The Commission directs MSEDCL to submit the sample bills for the month of March, 2006 within 15 days of the date of this letter.

MSEDCL has also not submitted fuel analysis report of representative monthly sample of fuels certified by an Independent Certification Agency along with FAC submission for the month of March, 2006 as directed by the Commission vide its letter dated 5th May, 2006. The Commission directs MSEDCL to submit the same for the month of March, 2006 within 15 days of the date of this letter and forward the same along with FAC submissions in future.

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.

e. **Heat Rate** - MSEDCL has worked out the variable cost of generation considering normative heat rates of each station and the same is allowed.

f. **Transit Loss** – MSEDCL has worked out the variable cost of generation considering normative transit loss. In addition to the transit loss indicated in the cost of the coal statement, MSEDCL has also made adjustments to transit loss amount and the same is allowed.

ii) **Variable cost of power purchase –**

a. MSEDCL has considered insurance cost in respect of Kakrapar, Tarapur and Dodson as part of variable cost which has been disallowed by the Commission. Further, an amount of Rs.10 lacs towards FOCA Charges of Tata NP were considered twice in FAC as well as in variable cost. The Commission has considered the same only under FAC of Tata NP. MSEDCL has purchased 2170 MU's with a cost of Rs.414.39 crore (after deduction of fixed cost @0.696 Rs./unit) at avg. rate

of Rs.1.91 / unit as against estimated 1349 MU's costing Rs.161.37 crore @ Rs.1.20 /unit. Thus, the units purchased have increased by 61% whereas the purchase cost has increased by 257% for March, 2006.

Considering the severe power shortage faced by MSEDCL, partly due to shutdown of the Unit 5 of Chandrapur Station of 500 MW, the substantial energy purchase by MSEDCL and cost thereof for March, 2006 is allowed.

b. MSEDCL has submitted the data for the power purchase certified by Chartered Accountant **except the data relating to Pench, Grid Losses, Non Conventional Sources of Energy (NCSE) and Captive Power Plant. The sample bills for the power purchase are not submitted. The Commission expresses its displeasure in MSEDCL not abiding by its own confirmation vide letter dated 20th April, 2005 to get the power purchase statements from Renewable Source of Power audited for future period. The Commission directs MSEDCL to submit future FAC submissions along with invoices for power purchase and audited power purchase statements for power purchased from Renewable Source of Power, Captive Power Plants, Pench and Grid Losses.**

c. The power purchase rate for Sardar Sarovar is taken as Rs.4.18 per unit. Pending receipt of invoice from Pench authorities, MSEDCL has considered the rate of Rs.2.45/unit for power purchased from Pench and the same is allowed. Upon the receipt of the invoice, the adjustment for the debit/credit to be given in subsequent FAC. As directed by the Commission in its order dated 21st March, 2006, MSEDCL has deducted normative fixed cost per of 0.696 Rs./ unit from the actual total cost per unit.

d. The wind power purchase rate is taken as Rs.3.46 / unit and hydro power rate is taken as Rs.2.45/ unit as per the respective orders. The cost of power purchase from bagasse is taken as Rs.3.24/- per unit. The Commission has allowed the cost for power purchase from Non Conventional Sources of Energy (NCSE) and CPP as claimed by MSEDCL.

e. **UI charges:**

MSEDCL has purchased 205 MU's through UI at average rate of Rs.2.40/ unit. Considering the severe power shortage faced by MSEDCL and the cost of purchase of power from other sources/traders, the substantial UI purchase over the normative level of 1% of total energy input requirement is allowed.

MSEDCL has considered the cost of UI energy as certified by CA and the same is allowed.

f. **Scheduled Energy Received in grid through Imports from various regions and losses:**

The losses in power purchase through grid are 136 MU's and the same are allowed as they are not under control of MSEDCL.

- iii) **Interest on working capital** – MSEDCL has not considered interest on incremental working capital requirement on account of change in fuel and power purchase costs and accordingly the same is not considered in the FAC.
- iv) **Adjustment factor for over recovery / under recovery** – MSEDCL has not considered any amount towards the under recovery/ over recovery for the month March, 2006. However, the Commission has considered the actual billed amount of Rs.194.36 crore as against estimated billed amount of Rs.157.46 crore in March, 2006 and modified the overall under recovery for the period September, 2005 to January, 2006 to Rs.415.53 crore as against previous estimated amount of Rs.452.43 crore as informed vide its letter dated 5th May, 2006. As this amount is proposed to be recovered in the billing months of June, 06 , July, 06 and August, 06 as requested by MSEDCL, the corresponding interest to be recovered has been updated to Rs.9.81 crore as against Rs.12.81 crore.

The FAC amount, adjustment to FAC for the excess T&D Loss, recoverable FAC, the FAC amount allowed to be billed, actually billed (for the month of February 2006 & March, 2006), under recovery and over recovery and cumulative under recovery for the period September 2005 to January 2006 is given in Table A.

Further, MSEDCL to recover the under recovery of Rs. 415.53 crore in three equal amounts of Rs.138.51 crore in the billing months of June 2006 to August 2006. The interest on under recovery is arrived at Rs. 9.81 crore and to be recovered in installments of Rs. 7.73 crore, Rs 1.39 crore and Rs. 0.69 crore in the billing months of June 2006, July, 2006 and August 2006 respectively. The details of the interest on under recovery and charging of under recovery are given in Table B and C.

Thus, the allowable overall under recovery worked out for the period September, 2005 to January, 2006 is provisional only for the month of January, 2006, as the actual FAC billed amount is not available with MSEDCL. The Commission directs MSEDCL to give the effect of modified recoverable amount after receipt of billed FAC amount for the month of January, 2006 (billed in April, 2006).

FAC for the month of March, 2006

The Commission has allowed recoverable FAC amount of Rs. 244.26 crore of the month of March, 2006 to be recovered in the billing month of June 2006 @ 62 Paise / unit.

Table A

Under Recovery / Over recovery for the period September, 2005 to February, 2006 updated for actual billed amount of March, 06

(Rs. in crore)

FAC Month	FAC MSEDCL*	FAC-Commission*	Adjust. for Excess T & D Loss per Commission	Recoverable & FAC as per Commission	FAC already allowed for billing (Paise /kwh)	FAC amount billed estimated to be billed	Under /Over Recovery per Commission	Cumulative Under recovery
Sept.05	106.58	106.58	1.23	105.35	20		105.35	105.35
Oct.05	217.64	218.57	24.05	194.52	20	112.5	82.02	187.37
Nov.05**	205.79	208.17	18.74	189.43	20		189.43	376.80
Dec. 05**	280.67	273.00	32.52	240.48	20	194.36	46.12	422.92
Jan.06	350.24	343.70	34.41	309.29	78	316.68	-7.39	415.53
Feb.06	401.63	405.45	21.11	384.34	96	384.34	0.00	415.53
Total	1562.6	1552.89	132.94	1419.96		970.98		

* FAC of respective months without adjustment of under / over recovery

** Billed in March 06 - actual billed amount of Rs.194.36 crore as against estimated amount of Rs.157.46 crore

Table B

Interest on Under recovery for the FAC period September, 2005 to January, 2006 updated for actual billed amount of March, 06

(Rs. in crore)

Under / Over recovery of the FAC month	Under / Over Recovery as per Commission	Billing month	Period of under recovery till month June 06	Int. @6% p.a. on under/over recovery
Sep-05	105.35	Jan-06	5	2.63
Oct.05	82.02	Feb-06	4	1.64
Nov.05	189.43	Mar-06	3	2.84
Dec. 05	46.12	Mar-06	3	0.69
Jan.06	-7.39	Apr-06	2	-0.07
Total	415.53			7.73

Table C

Recovery of under recovery in the billing Months of May 2006 to October, 2006 updated for actual billed amount of March, 06

(Rs. in crore)

Billing Month	Under recovery allowed to be recovered	Interest allowed for recovery	Total amount allowed for recovery*	Balance for Under recovery	Int. @6% p.a. on the balance under recovery
Jun-06	138.51	7.73	146.24	277.02	1.39
Jul-06	138.51	1.39	139.90	138.51	0.69
Aug-06	138.51	0.69	139.20	0.00	0.00
Total	415.53	9.81	425.34		2.08

* The recoverable amount to be converted into unit FAC charge for metered / un metered consumers based on consumption of respective months

Table D - Calculation of FAC charge for the month of March 2006:

Sr. No.	Parameter	Units	March 2006	
			As per MSEDCL	As per Commission
	Calculation of FAC			
1	Normative Variable Fuel Cost of generation	Rs./unit	1.23	1.23
2	Normative Variable Fuel Cost of power purchase	Rs./unit	1.9107	1.9098
3	Normative Variable Fuel cost of generation and power purchase	Rs./unit	1.48	1.48
5	Change in Variable Fuel cost of generation and power purchase	Rs./unit	0.47	0.47
6	Net Generation + Net power purchase	MUs	5983	5983
7	Change in Variable Fuel cost of generation and power purchase	Cröre	283.39	283.19
8	Working capital interest (I)	Cröre	0.00	0.00
9	Adjustment of over recovery/ under recovery (B)	Cröre	0.00	0.00
	Total FAC (7+8+9)	Cröre	283.39	283.19
	FAC liable sale			
	Sale within License Area	MUs	3970	3970
	Excess T & D losses	MUs	633	633
	FAC Charge without considering cap	Paise/un it	62	62
	FAC(A) allowed	Rs.crore	244.44	244.26
	FAC(A) disallowed corresponding to excess loss	Rs.crore	38.96	38.93

Table	1.1					
Title	Energy Sales					
Sr. No.	Consumer Category	Unit	FY 03-04	Mar-06		Reasons for material variation
			Order	Order	Actual	
(A)	(B)	(C)	(D)	(E)	(F)	(G)
1.0	Energy Sales in License Area¹					
	Domestic	MU	8,781	732	582	
	Non-Domestic	MU	1,954	163	153	
	LTP-G	MU	3,640	303	329	
	PWW	MU	481	40	30	
	Agriculture-Metered	MU	894	75	183	
	Street Lighting	MU	635	53	44	
	Temporary	MU	-	-	2	
	HTP-I	MU	6,644	554	413	
	HTP-II	MU	6,217	518	1,089	
	HTP-III&IV (PWW)	MU	1,031	86	83	
	HTP-V (Railway)	MU	980	82	90	
	HTP-VI	MU	310	26	29	
	HTP-VII (Agriculture)	MU	582	49	46	
	Mula Pravara	MU	667	56	52	
	Others	MU			28	
	Inter state	MU	-	-	0	
	Subtotal	MU	32,816	2,735	3,151	
2.0	Energy Sales outside License Area excluding Energy Sales reported at (3)					
	Consumer 1	MU				
	Consumer 2	MU				
	...	MU				
	Consumer 'n'	MU				
	Subtotal	MU	-	-	-	
3.0	Energy Sales corresponding to specific utilisation of a particular Unit/Station² as per Order					
4.0	Total Energy Sales (1.0 + 2.0 + 3.0)					
		MU	32,816	2,735	3,151	
5.0	Total Energy Sales excluding Energy Sales corresponding to specific utilisation of a particular Unit/Station as per Order (1.0 + 2.0)					
		MU	32,816	2,735	3,150.58	

Table	1.2							
Title								
Sr. No.	Consumer Category¹	FY 2003-2004 (Order)			Mar-06			
		Load	Norm²	EC_{UM}³	Order	Load	EC_{UM}³	Reasons for material variation
		HP	hrs/ HP/ Year	MU	MU	HP	MU	
(A)	(B)	(F)	(F)	(D)	(E)	(G)	(H)	(I)
1.0	Unmetered Hrs>1300	2660698	1458	2413	201		287	
1.1	Unmetered Hrs<1300	4497468	1188	4480	373		532	
	Total	7158166	2646	6893	574		819	

Table	1.3					
Title	Energy Availability					
Sr. No.	Source of Generation/Power Purchase	Unit	FY 03-04	Mar-06		
(A)	(B)	(C)	Order (D)	Order (E)	Actual (F)	Reasons for material variation (G)
1.0	Generation¹					
1.1	Capacity	MW				
	Khaparkheda	MW	840	840	840	
	Paras	MW	58	58	58	
	Bhusawal	MW	478	478	478	
	Nasik	MW	910	910	910	
	Parli	MW	690	690	690	
	Koradi	MW	1,080	1,080	1,080	
	Chandrapur	MW	2,340	2,340	2,340	
	Gas Thermal	MW	912	912	852	Unit No.1 of 60 MW is scrapped.
	Hydel Stations	MW	2,430	2,430	2,349	See Note no.6
	Subtotal	MW	9,738	9,738	9,597	
1.2	Availability					
	Khaparkheda	%	92%	92%	87%	*
	Paras	%	94%	94%	100%	
	Bhusawal	%	89%	89%	99%	*
	Nasik	%	95%	95%	98%	*
	Parli	%	97%	97%	93%	*
	Koradi	%	87%	87%	84%	*
	Chandrapur	%	93%	93%	73%	*
	Gas Thermal	%	55%	55%	100%	
	Hydel Stations	%				
	Subtotal	%				
1.3	PLF					
	Khaparkheda	%	81%	81%	85%	*
	Paras	%	75%	75%	101%	
	Bhusawal	%	74%	74%	96%	*
	Nasik	%	65%	65%	92%	*
	Parli	%	65%	65%	87%	*
	Koradi	%	69%	69%	75%	*
	Chandrapur	%	83%	83%	69%	*
	Gas Thermal	%	51%	51%	55%	
	Hydel Stations	%				
	Subtotal	%				
1.4	Gross Generation	MU				
	Khaparkheda	MU	5,979	498	528	
	Paras	MU	382	32	43	
	Bhusawal	MU	3,113	259	340	
	Nasik	MU	5,143	429	626	
	Parli	MU	3,918	327	448	
	Koradi	MU	6,542	545	605	
	Chandrapur	MU	16,984	1,415	1,206	
	Gas Thermal	MU	4,058	338	346	
	Hydel Stations	MU	4,104	342	313	
	Subtotal	MU	50,223	4,185	4,457	
1.5	Auxiliary Consumption	MU				
	Khaparkheda	MU	508	42	48	
	Paras	MU	37	3	4	
	Bhusawal	MU	311	26	30	
	Nasik	MU	463	39	52	
	Parli	MU	380	32	41	
	Koradi	MU	641	53	57	
	Chandrapur	MU	1,291	108	90	
	Gas Thermal	MU	97	8	8	
	Hydel Stations	MU	25	2	3	
	Subtotal	MU	3,753	313	333	

1.6	Net Generation (1.4-1.5)	MU				
	Khaparkheda	MU	5,471	456	480	
	Paras	MU	345	29	39	
	Bhusawal	MU	2,802	234	310	
	Nasik	MU	4,680	390	574	
	Parli	MU	3,538	295	407	
	Koradi	MU	5,901	492	548	
	Chandrapur	MU	15,693	1,308	1,117	
	Gas Thermal	MU	3,961	330	338	
	Hydel Stations	MU	4,079	340	311	
	Subtotal	MU	46,470	3,873	4,124	
2.0	Net Power Purchase²	MU				
	Korba	MU	4,501	375	489	
	Vindhyanchal - I	MU	2,727	227	323	
	Vindhyanchal - II	MU	2,081	173	262	
	Kawas - Gas	MU	457	38	18	
	Kawas - Liquid	MU	-	-	130	
	Gandhar	MU	818	68	155	
	Kakrapar	MU	1,772	148	47	
	Tarapur 1-4	MU	1,187	99	161	
	Eastern Region	MU	108	9	80	
	Tata Power (Trading)	MU	104	9	-	
	Power Trading Corp	MU	2,127	177	155	
	Adani	MU			99	
	NVVN	MU			69	
	RETL	MU			0	
	Tata N.P.	MU		-	5	
	Dodson	MU			4	
	Sardar Sarovar	MU			14	
	Pench	MU			14	
	Received in grid through Imports from various regions & Loss	MU			(136)	(136)
	Unscheduled Interchange (UI)	MU			205	
	Power Purchase from wind generating units	MU		-	29	
	Power Purchase from other renewable sources of generation (Hydro)	MU	300	25	6	
	Power Purchase from Bagasse	MU		-	10	
	Power Purchase from captive	MU		-	31	
	Subtotal	MU	16,182	1,349	2,170	
3.0	Energy Available	MU				
3.1	Gross Generation + Net Power Purchase (1.4+2.0)	MU	66,405	5,534	6,626	
3.2	Net Generation + Net Power Purchase (1.6+2.0)	MU	62,652	5,221	6,293	
3.3	Net Energy Available at transmission voltage	MU	62,652	5,221	6,293	
3.4	Net Energy Available at distribution voltage	MU			5,765	

Table	1.4					
Title	T&D Loss					
Sr. No.	Parameter	Unit	FY 03-04	Mar-06	Actual	Reasons for material variation
(A)	(B)	(C)	Order (D)	Order (E)	(F)	(H)
1.0	Transmission and Stepdown Loss¹					
1.1	Net Energy Input at transmission voltages (Net Generation + Net Purchase)	MU			6293	
1.2	Energy Sales at transmission voltages	MU			0	
1.3	Energy fed to Distribution System	MU			5765	
1.4	Transmission and Stepdown Loss (1.1 - 1.2 - 1.3)	MU			528	
1.5	Transmission and Stepdown Loss as % of Net Energy Input (1.4 / 1.1)	%			8.40%	
2.0	Distribution Loss¹					
2.1	Net Energy Input (input from Transmission System + net energy input at distribution voltages)	MU		-	5765	
2.2	Energy Sales (Metered) at distribution voltages	MU			3151	
2.3	Estimated Consumption for Unmetered Categories	MU			819	
2.4	Distribution Loss (2.1 - 2.2 - 2.3)	MU			1795	
2.5	Distribution Loss as % of net energy input (2.4 / 2.1)	%			31.14%	
3.0	Transmission and Distribution (T&D) Loss					
3.1	Net Energy Input (i.e. Net Generation + Net Power Purchase)	MU			6,293	
3.2	Energy Sales (Metered + Unmetered) (1.2+2.2+2.3)	MU			3,970	
3.3	T&D Loss (3.1 - 3.2)	MU			2,324	
3.4	T&D Loss as % of Net Energy Input (3.3 / 3.1)	%	26.87%	26.87%	36.92%	
4.0	Excess T&D Loss = T&D Loss (3.3) - T&Dapp x Net Energy Input (3.1)	MU			633	

Table 1.5
Title Excess Auxiliary Consumption

Sr. No.	Parameter	Unit	Mar-06
(A)	(B)	(C)	(D)
1.0	Actual Auxiliary Consumption (Table 1.3, Sr. No. 1.5)		
	Khaparkheda	MU	48.32
	Paras	MU	4.27
	Bhusawal	MU	30.50
	Nasik	MU	52.39
	Parli	MU	40.84
	Koradi	MU	56.83
	Chandrapur	MU	89.75
	Gas Thermal	MU	7.69
	Hydel Stations	MU	2.50
	Subtotal	MU	333.09
2.0	Actual Auxiliary Consumption %		
	Khaparkheda	%	9.15%
	Paras	%	9.83%
	Bhusawal	%	8.96%
	Nasik	%	8.37%
	Parli	%	9.12%
	Koradi	%	9.40%
	Chandrapur	%	7.44%
	Gas Thermal	%	2.22%
	Hydel Stations	%	0.80%
	Actual Auxiliary Consumption for all Generating Stations	%	7.47%
3.0	Normative Auxiliary Consumption¹		
	Khaparkheda	MU	44.91
	Paras	MU	4.21
	Bhusawal	MU	34.03
	Nasik	MU	56.36
	Parli	MU	43.46
	Koradi	MU	59.24
	Chandrapur	MU	91.69
	Gas Thermal	MU	8.31
	Hydel Stations	MU	1.88
	Normative Auxiliary Consumption for all Generation Stations	MU	344.08
4.0	Excess Auxiliary Consumption²		
	Khaparkheda	MU	3.41
	Paras	MU	0.06
	Bhusawal	MU	(3.53)
	Nasik	MU	(3.96)
	Parli	MU	(2.62)
	Koradi	MU	(2.41)
	Chandrapur	MU	(1.94)
	Gas Thermal	MU	(0.61)
	Hydel Stations	MU	0.62
	Subtotal	MU	(10.99)

Table	2.1a											
Title	Fuel Calorific Value											
Sr. No.	Station	Parameter	Unit	FY	For the month of March 2006							
				Order								
(A)	(B)	(C)	(D)	(E)								
1.0	MAHA GENC O STNs	Calorific value of constituents of Fuel Basket specified at (2.0)			Paras	Bhusawal	Nasik	Parli	Koradi	Cha'pur	Total Average	
		Coal - Raw Coal	kcal/kg		3890	3680		3625	4080			
		Coal - Washed Coal	kcal/kg						4792			
		Coal - Imported Coal	kcal/kg			6630	6647					
		Coal - Blended Coal	kcal/kg		3385	3890	3751	3915	3625	3918	3477	3,649
		Oil - LDO	kcal/Kl		10595	10300	10850	10860	10411	10708	10430	10,505
		Oil - HSD	kcal/Kl									
		Oil - FO	kcal/Kl		10275	10150	10670	10690	10371	10232	10280	10,402
		Oil - LSHS	kcal/Kl							10399		10,399
		Gas (Uran Station)	Kcal/SM^3									8,404

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Table 2.2																								
Title Fuel Inventory																								
For the month March 2006																								
Sr. No.	Station	Fuel ¹	Unit of Qty	Opening Level			Purchase ² during Mar 2006			Available at Plant Boundary ² during Feb 2006					Consumption during Mar 2006					Closing Inventory				
				Qty	Value	Rate	Qty	Value	Rate	Transit Loss		Qty at Plant Boundary		Issued to			Qty	Qty	Value	Price	Price	Qty	Value	Rate
				MT	Rs Lakh	Rs/Qty	MT	Rs Lakh	Rs/Qty	QTY. MT	VALUE (Rs.Lakhs)	MT	QTY. MT	VALUE (Rs.Lakhs)	MT	Mkcal	Rs Lakh	Rs/Qty	Rs/Mkcal	MT	Rs Lakh	Rs/MT		
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(K1)	(L) = (H)-(K)	L1	L2	(M)	(N)	(O)	(P)	(Q)	(R)=(E)+(L)-(M)	(S)=(F)+(I)-(O)	(T)		
	MAHAGE NCO - Coal Based Stations	Coal - Raw Coal	MT	1677043	22650	1351	2600063	36010	1385	47017	781	2553045	6821	76	2326904	0	32759	1408	0	1896363	25044	1321		
		Coal - Washed Coal	MT	0	0	0	331823	5130	1546	0	0	331823	0	0	331823	0	5130	1546		0	0			
		Coal - Imported Coal	MT	141260	5687	4026	57212	1949		0	0	57212	0	0	130077	0	4789	3682		68395	2847	4162		
		Subtotal		1818303	28337	1558	2989098	43089	1442	47017	781	2942080	6821	76	2788804	10175719	42679	1530	419	1964758	27891	1420		
		Oil - LDO	KL	11547	3244	28094	1573	476	30280	0	0	1573	0	0	1132	10147	338	29887	3335	11987	3382	28211		
		Oil - HSD	KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		Oil - FO	KL	20703	3972	19185	215	36	16851	0	0	215	0	0	1739	16877	330	18965	1954	19179	3678	19179		
		Oil - LSHS	KL	2357	483	20481	0	0	0	0	0	0	0	0	275	2577	56	20483	2189	2082	426	20481		
		Subtotal		34607	7699	22246	1788	512	28665	0	0	1788	0	0	3147	29602	725	23028	2448	33248	7486	22517		
		Other charges as per 2.2b			0			0		0	0		0	0			-4					0		
		Total - Coal		0	36036			43602		47017	781		6821	76		10205320	44180		441		35378			
	Gas Based Station	Fuel ¹	Unit of Qty	Qty	Value	Rate	Qty	Value	Rate	Transit Loss		Qty at Plant Boundary		Issued to			Qty	Qty	Value	Price	Price	Qty	Value	Rate
				MM^3	Rs Lakh	Rs/SM^3	MM^3	Rs Lakh	Rs/SM^3	MM^3	Rs Lakh	MM^3	Mkcal	Rs Lakh	MM^3	Mkcal	Rs Lakh	Rs/SM^3	Rs/Mkcal	MM^3	Rs Lakh	Rs/SM^3		
	Uran Gas Station	Total - Gas	MMC MD	0	0	0	83	2816	3.38	0	0	0	0	0	83	699233	2816	3.38	403	0	0	0	0	0
	MAHAGE NCO - TOTAL	TOTAL - Coal & Gas			36036			46417							10904554	46996					35378			

Table	2.2.b												
	Supplementary sheet												
Title	Purchase price break up												
		For the month of Mar 2006											
Sr. No.	Station	Fuel¹	Purchase price of Fuel as Indicated in Supplier's Invoice										
			Base Price	Transportation	Insurance	Local Transportation	Taxes	Duties SED	Royalty Charges	Others STC	Others	Others	Total Value
			Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh
1	TOTAL - COAL STNS	Coal - Raw Coal	22,720.15	8,974.34	-	-	1,041.42	258.90	2,165.29	850.27	-	-	36,010.37
		Coal - Washed Coal	3,614.01	522.43	-	-	161.30	34.72	278.24	105.66	336.38	77.51	5,130.25
		Coal - Imported Coal	918.70	446.01	2.18	243.46	74.95	70.56	-	-	180.49	12.21	1,948.56
		Total Coal	27,252.86	9,942.78	2.18	243.46	1,277.67	364.18	2,443.53	955.93	516.87	89.72	43,089.18
		Oil - LDO	344.67	19.24	-	-	52.93	59.38	-	-	-	-	476.22
		Oil - HSD	-	-	-	-	-	-	-	-	-	-	-
		Oil - FO	27.65	0.03	-	-	-	4.42	-	3.46	-	-	35.56
		Oil - LSHS	-	-	-	-	-	-	-	-	-	-	-
		Total Oil	372.32	19.27	-	-	52.93	63.80	-	3.46	-	-	511.78

Table	2.2.b Supplementary sheet												
Title	Purchase price break up												
		For the month of Mar 2006											
Sr. No.	Station	Fuel¹	Purchase price of Fuel as Indicated in Supplier's Invoice										
			Base Price	Service charges	Insurance	Additional service charges	Taxes	Duties	Royalty Charges	Rebate	Others	Others	Total Value
			Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh
1	URAN GAS STATION	Gas	2662.57	5.64	0.00	41.49	312.84	0.00	259.43	466.43	0.00	0.00	2,816
		Total Coal	2,663	6	-	41	313	-	259	466	-	-	2,816
Summary of Purchase for URAN GAS station for the month of Jan 2006													
	Fuel supplied	Name of Supplier	As per Invoice				As per Payment Advise			As booked in Accounts			
			Price	Qty	Rate	Value	Qty	Rate	Value	Qty	Rate	Value	
	Gas	M/s.Gail (contract dated 10.02.98)	3,200	83	3,200	2,821	83	3,200	2,816	83	3,200	2,816	
	Total			83		2,821	83		2,816	83		2,816	

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Table	2.3							
Title	Fuel Cost							
Sr. No.	Station	Fuel Basket	Unit of Qty	Order for FY		Mar-06		
				Consumption¹	Fuel price¹	Consumption¹	Fuel price¹	Reasons for material variation
				Unit	Rs/Unit	Unit	Rs/Unit	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
	MAHAGENCO	Coal - Raw Coal	MT			2326904	1408	
		Coal - Washed Coal	MT			331823	1546	
		Coal - Imported Coal	MT			130077	3682	
		Coal - Blended Coal	MT			2788804	1530	
		Oil - LDO	KL			1132	29887	
		Oil - HSD	KL			0	0	
		Oil - FO	KL			1739	18965	
		Oil - LSHS	KL			275	20483	
		Gas	MM ³			83	2816	
		Total						

Table	2.4				
Title	Fuel Consumption by Various Generating Station/ Unit				
Sr. No.	Generating Station/Unit	Unit for Qty	Fuel Basket (FB) ¹	Mar-06	
				Consumption	Consumption
				Qty	Mkcal
(A)	(B)	(C)	(D)	(E)	(F)
	<u>Fuel consumption by Generating Station/Unit</u>				
	Khaperkheda		Coal	402700	1363140
	Khaperkheda		Oil	121	1096
	Total		All fuels²	402821	1364236
	Paras		Coal	35622	138570
	Paras		Oil	23	218
	Total		All fuels²	35645	138787
	Bhusawal		Coal	235681	883922
	Bhusawal		Oil	273	2718
	Total		All fuels²	235954	886639
	Parli		Coal	329849	1195703
	Parli		Oil	541	5187
	Total		All fuels²	330390	1200890
	Nasik		Coal	422202	1652921
	Nasik		Oil	270	2639
	Total		All fuels²	422472	1655560
	Koradi		Coal	460322	1803542
	Koradi		Oil	763	7179
	Total		All fuels²	461085	1810721
	Chandrapur		Coal	902428	3137923
	Chandrapur		Oil	1156	10565
	Total		All fuels²	903584	3148487
	Uran		Gas	83	699233
	Total		All fuels²	83	699233
	<u>Fuel-wise subtotal of consumption</u>				
	Total fuel consumption		Coal	2788804	10175719
	Total fuel consumption		Oil	3147	29602
	Total fuel consumption		Gas	83	699233
	Total		All fuels²	2792034	10904554

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Table Title	2.5 Transit Loss on Fuel											
Sr. No.	Generating Station ¹	Fuel ¹	Order FY	Mar-06								
			Transit Loss	Despatch ²	Receipt ³	Transit Loss	Actual Transit Loss	Normative Transit Loss actual	Adjtd Transit Loss Qty	Transit Loss after including Adjtd Loss	Transit Loss after including Adjtd Loss	Reasons for material variation
(A)	(B)		% (C)	Qty (D)	Qty (E)	% (F) = ((D)-(E))/(D)	Rs.Lacs	Rs.Lacs	MT	%	Rs.Lacs (G)	
	Khaparkhed a		1.45%	452945	446103	1.51%	84.00	80.64	0	1.51%	84.00	
	Paras		2.58%	35025	34097	2.65%	14.29	13.91	-140	2.25%	12.09	
	Bhusawal		0.98%	205955	201691	2.07%	65.48	30.99	154	2.15%	69.72	
	Nasik		0.96%	377645	363439	3.76%	308.64	78.76	0	3.76%	308.64	
	Parli		2.40%	347967	342020	1.71%	99.34	139.50	-367	1.60%	93.24	
	Koradi		1.47%	510240	503468	1.33%	122.32	135.47	0	1.33%	122.32	
	Chandrapur		1.72%	1059320	1051263	0.76%	86.96	196.65	0	0.76%	86.96	
	Total Thermal			2989098	2942080		781.03	675.92	-352.85		776.97	

Table	3.1					
Title	Heat Rate for Thermal Generating Station/Unit					
Sr. No.	Generating Station/Unit¹	Order FY	Mar-06			
		Heat Rate	Gross Generation	Energy Input	Heat Rate	Reasons for material variation
		kcal/ kWh	MU	Mkcal	kcal/ kWh	
(A)	(B)	(C)	(D)	(E)	(F) = (E)/(D)	(G)
	Khaparkheda	2725	528	1364236	2,582	*
	Paras	3200	43	138787	3,198	
	Bhusawal	2735	340	886639	2,605	*
	Nasik	2663	626	1655560	2,644	*
	Parli	2649	448	1200890	2,680	*
	Koradi	2996	605	1810721	2,995	
	Chandrapur	2502	1,206	3148487	2,610	
	Gas Thermal	1966	346	699233	2,020	
	Total for Thermal Generation		4,143	1E+07	2,632	

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Table	3.2					
Title	Secondary Oil Consumption for Thermal Generating Station/Unit					
Sr. No.	Generating Station/Unit¹	Order (FY)	Mar-06			
		Secondary Oil Consumption	Gross Generation	Secondary Oil Consumption	Secondary Oil Consumption	Reasons for material variation
		ml/kWh	MU	kl	ml/kWh	
(A)	(B)	© *	(D)	(E)	(F) = (E)/(D)	(G)
	Khaparkheda		528	121	0.23	
	Paras		43	23	0.53	
	Bhusawal		340	273	0.80	
	Nasik		626	270	0.43	
	Parli		448	541	1.21	
	Koradi		605	763	1.26 *	
	Chandrapur		1,206	1156	0.96	
	Gas Thermal		-	-	-	Not Applicable
	Total for Thermal Generation		3,797	3,147	0.83	

Table 3.3															
Title Calculation of Station/Unit-wise variable cost of generation (fuel cost)															
Sr. No.	Generating Station/Unit ^{1&2}	Fuel Basket (FB) ^{1&2}	Order (FY)			Order for Month & Year			Mar-06				Normative Actual Var. Cost ⁴ for Mar 2006		
			Var. Cost ³	Var. Cost	Generation ³	Var. Cost ³	Var. Cost	Generation ³	Reasons for Material Variation	Var. Cost ³	Var. Cost	Generation ³	Var. Cost ³	Var. Cost	
			MU	Rs/ kWh	Rs Lakh	MU	Rs/ kWh	Rs Lakh	MU		Rs/ kWh	Rs Lakh	MU	Rs/ kWh	Rs Lakh
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
1.0	Generating Station/Unit wise, Fuel Basket-wise details														
2.0	Generating Station/Unit wise summary														
	Khaparkheda		5471	0.9162	50125.3	456	0.9162	4,177	480		1.12	5,399	480	1.18	5,654
	Paras		345	1.2063	4161.74	29	1.2063	347	39		1.45	569	39	1.46	571
	Bhusawal		2802	1.0721	30040.2	234	1.0721	2,503	310		1.55	4,797	310	1.63	5,052
	Nasik		4680	1.3188	61719.8	390	1.3188	5,143	574		1.71	9,825	574	1.70	9,732
	Parli		3538	1.2278	43439.6	295	1.2278	3,620	407		1.40	5,712	407	1.41	5,728
	Koradi		5901	1.1695	69012.2	492	1.1695	5,751	548		1.14	6,233	548	1.15	6,275
	Chandrapur		15693	0.7023	110212	1,308	0.7023	9,184	1,117		1.04	11,645	1,117	1.01	11,289
	Gas Thermal		3961	0.6742	26705.1	330	0.6742	2,225	338		0.83	2,816	338	0.81	2,745
	Total	All fuels	42391	0.9328	395416	3,533	0.9328	32,951	3,813		1.23	46,996	3,813	1.23	47,046
3.0	Total for all Generating Stations/Units														
	Total Generation excl FHC	All fuels													
	Fuel Handling Cost (FHC)														
	Generation including FHC														
4.0	Generation corresponding to Utilisation of Specific Generating Station/Unit corresponding to sale mentioned at Table 1.1, Item 3⁵														
	Generating Station/Unit 'n'	FB ..													
5.0	Total for all Generating Stations/Units excl. generation reported at (4.0)		42391	0.93	395416	3533	0.93	32951	3813	0	1.23	46996	3813	1.23	47046

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Calculation of Normative Variable Cost of Generating Stations										
A. Thermal Stations	K'kheda	Paras	Bhusawal	Nasik	Parli	Koradi	C'pur	Total for Coal	Uran (Gas)	
Actual Gross Generation (MU)	528	43	340	626	448	605	1,206	3,797	346	
Approved Auxiliary Consumption%	8.50%	9.70%	10.00%	9.00%	9.70%	9.80%	7.60%		2.40%	
Net Generation (MU)	483	39	306	570	405	545	1,115	3,463	338	
Actual Generation Cost (Rs lakhs)	5,399	569	4,797	9,825	5,712	6,233	11,645	44,180	2,816	
Less: Transit Loss after Adjustment	84	12	70	309	93	122	87	777	-	
Add: Normative Transit Loss (Rs.Lakhs)	81	14	31	79	139	135	197	676	-	
Actual Adjusted Gen Cost (Rs.Lakhs)	5,396	571	4,758	9,596	5,758	6,246	11,755	44,079	2,816	
Actual Quantity delivered (MT)	452,945	35,025	205,955	377,645	347,967	510,240	1,059,320	2,989,098		
Avg coal purchase price (Rs/MT)	1,258	1,540	1,609	2,132	1,672	1,296	1,233			
Actual Transit Loss (MT)	6,841	929	4,264	14,207	5,947	6,772	8,057	47,017		
Actual Heat Input (MKcal)	1,364,236	138,787	886,639	1,655,560	1,200,890	1,810,721	3,148,487	10,205,320	699,233	
Actual Fuel Cost (Rs/MkCal)	396	412	537	580	479	345	373	432	403	
Base Variable Cost (Rs/kWh)	0.9162	1.2063	1.0721	1.3188	1.2278	1.1695	0.7023		0.6742	
Actual Heat Rate (kCal/kWh)	2,582	3,198	2,605	2,644	2,680	2,995	2,610	2,688	2,020	
Norm - Heat Rate (kCal/kWh)	2,725	3,200	2,735	2,663	2,649	2,996	2,502	2,675	1,966	
Variable cost after adjustment for Heat rate & Auxiliary Consumption	1.1779	1.4583	1.6307	1.6961	1.4066	1.1458	1.0109	1.1554	0.8111	

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Table	4.1														
Title	Variable cost of power purchase ^{1&11}														
Sr. No.	Power Purchase Source ²	Order (FY)			Order for Month & Year			Mar-06							
		Net Purchase ³	Var. Cost ⁵	Var. Cost Amt ⁴	Net Purchase ₃	Var. Cost ⁵	Var. Cost Amt ⁴	Net Purchase ₃	Tariff ⁶	PP Amt ⁷	FAC Unit ⁸	FAC Rate ⁹	FAC Amt ¹⁰	Var. Cost Amt ⁴	Var. Cost ⁵
		MU	Rs/ kWh	Rs Lakh	MU	Rs/ kWh	Rs Lakh	MU	Rs/ kWh	Rs Lakh	MU	Rs/ kWh	Rs Lakh	Rs Lakh	Rs/ kWh
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)=(I)*(J)	(L)	(M)	(N)=(L)*(M)	(O)=(K)+(N)	(P)
	Korba	4501	0.53	23,630	375	0.53	1,969	489	0.54	2,659	489	0.08	393	3052	0.62
	Vindhyanchal -I	2727	0.74	20,049	227	0.74	1,671	323	0.85	2,753	323	0.15	484	3237	1.00
	Vindhyanchal -II	2081	0.79	16,467	173	0.79	1,372	262	0.79	2,061	262	0.14	378	2440	0.93
	Kawas - Gas	457	2.45	11,190	38	2.45	933	18	1.14	204	18	0.07	12	216	1.21
	Kawas - Liquid	0	-	-	-	-	-	130	3.72	4,830	130	2.88	3,737	8568	6.60
	Gandhar	818	1.15	9,374	68	1.15	781	155	1.02	1,585	155	0.29	455	2041	1.31
	Kakrapar	1772	2.99	53,002	148	2.99	4,417	47	2.06	975	47	0.20	92	1067	2.26
	Tarapur 1-4	1187	0.94	11,212	99	0.94	934	161	1.14	1,843	161	0.62	998	2841	1.76
	Eastern Region	108	1.06	1,148	9	1.06	96	80	0.89	706	80	0.22	173	880	1.11
	Tata Power (Trading)	104	1.80	1,876	9	1.80	156	-	-	-	-	-	-	0	#DIV/0!
	Power Trading Corp	2127	1.49	31,796	177	1.49	2,650	155	2.48	3,845	155	-	-	3845	2.48
	Adani	0	-	-	-	-	-	99	3.35	3,315	99	-	-	3315	3.35
	NVVN	0	-	-	-	-	-	69	2.66	1,829	69	-	-	1829	2.66
	RETL	0	-	-	-	-	-	0	2.06	7	0	-	-	7	2.06
	Tata N.P.	0	-	-	-	-	-	5	1.60	76	5	0.21	10	86	1.81

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Table	4.1														
Title	Variable cost of power purchase ^{1&11}														
Sr. No.	Power Purchase Source ²	Order (FY)			Order for Month & Year			Mar-06							
		Net Purchase ³	Var. Cost ⁵	Var. Cost Amt ⁴	Net Purchase ₃	Var. Cost ⁵	Var. Cost Amt ⁴	Net Purchase ₃	Tariff ⁶	PP Amt ⁷	FAC Unit ⁸	FAC Rate ⁹	FAC Amt ¹⁰	Var. Cost Amt ⁴	Var. Cost ⁵
		MU	Rs/ kWh	Rs Lakh	MU	Rs/ kWh	Rs Lakh	MU	Rs/ kWh	Rs Lakh	MU	Rs/ kWh	Rs Lakh	Rs Lakh	Rs/ kWh
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)=(I)*(J)	(L)	(M)	(N)=(L)*(M)	(O)=(K)+(N)	(P)
	Dodson	0	-	-	-	-	-	4	1.79	75	4	-	-	75	1.79
	Sardar Sarovar	0	-	-	-	-	-	14	3.48	484	14	-	-	484	3.48
	Pench	0	-	-	-	-	-	14	1.75	253	14	-	-	253	1.75
	Losses	0	-	-	-	-	-	(136)	-	-	(136)	-	-	0	-
	Unscheduled Interchange (UI)	0	-	4,400	-	-	367	205	2.40	4,934	205	-	-	4934	2.40
	Non Conventional Sources (Wind)	0	-	-	-	-	-	29	3.46	989	29	-	-	989	3.46
	Non Conventional Sources (Hydro)	300	3.17	9,500	25	3.17	792	6	2.45	139	6	-	-	139	2.45
	Power Purchase from Bagasse	0	-	-	-	-	-	10	3.24	333	10	-	-	333	3.24
	Power Purchase from captive generating units	0	-	-	-	-	-	31	2.61	808	31	-	-	808	2.61
	Total Power Purchase	16182	1.20	193,646	1349	1.20	16137	2170	1.60	34706	2170	0.31	6,733	41439	1.9098

Table 6.1
Title Composite variable cost of generation and power purchase

Sr. No.	Parameter	Order (FY)			Order for Month & Year			Mar-06	Normative actual for month & year					
		Energy	Var. Cost ²	Var. Cost Amt ³	Energy	Var. Cost ²	Var. Cost Amt ³		Energy	Var. Cost ²	Var. Cost Amt ³	Energy	Var. Cost ²	Var. Cost Amt ³
		MU	Rs/kWh	Rs Lakh	MU	Rs/kWh	Rs Lakh	MU	Rs/kWh	Rs Lakh	MU	Rs/kWh	Rs Lakh	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	
1.0	Own Generation ¹ (Table No. 3.3, Sr. No. 5.0)	42,391	0.93	395,416	3,533	0.93	32,951	3,813	1.23	47,046	3,813	1.23	47,046	
2.0	Disallowance of FAC for Excess Auxiliary Consumption (Table No. 3.4)													
3.0	Net Power Purchase (Table No. 4.1)	16,182	1.20	193,646	1,349	1.20	16,137	2,170	1.91	41,439	2,170	1.91	41,439	
4.0	Own Generation + Net Power Purchase (1.0-2.0+3.0)	58,573	1.01	589,062	4,881	1.01	49,088	5,983	1.48	88,486	5,983	1.48	88,486	

Table 6.2
Title Change in variable cost of generation and power purchase (C) –
Format 1

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
1.0	Weighted Average variable cost of generation and power purchase considered by the Commission for Month & Year (Table No.6.1 Sr. No.4.0, Col. No. (G))	Rs/kWh	1.01
2.0	Weighted Average Normative Actual variable cost of generation and power purchase for Month & Year (Table No.6.1 Sr. No.4.0, Col. No. (M))	Rs/kWh	1.48
3.0	Change in variable cost of generation and power purchase (2.0-1.0)	Rs/kWh	0.47
4.0	Generation ¹ + Net Power Purchase (Table No.6.1 Sr. No.4.0, Col. No. (L))	MU	5,983
5.0	Change in variable cost of generation and power purchase (3.0 x 4.0)	Rs Lakh	28,319

Table 6.7
Title Total Fuel Cost and Power Purchase Adjustment

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
1.0	Change in cost (C) (Table 6.2, Sr. No.5.0 for FAC Mechanism or Table 6.3, Sr. No. 4.0 for FOCA Mechanism)	Rs Lakh	28,319
2.0	Interest on Working Capital (I) (Table 6.5, Sr. No. 3.0)	Rs Lakh	-
3.0	Adjustment factor for over-recovery/under-recovery (B) (Table 6.6, Sr. No. 3.0)	Rs Lakh	-
4.0	FAC (A) = C + I + B (1.0 + 2.0 + 3.0)	Rs Lakh	28,319
5.0	Any unpredictable and uncontrollable expenses incurred (Z) ¹	Rs Lakh	
6.0	FOCA (A) = C + I + B + Z (4.0 + 5.0)	Rs Lakh	

Table 7.1
Title Calculation of per unit FAC/FOCA Charge

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
1.0	Energy Sales within License Area (Table 1.1, Sr. No.5.0)	MU	3,151
2.0	Estimated Consumption within License Area (Table 1.2, Sr. No. 4.0)	MU	819
3.0	Excess T&D Loss (Table 1.4, Sr. No. 4.0)	MU	633
4.0	Total FAC (Table 6.7, Sr. No. 4.0) or Total FOCA (Table 6.7, Sr. No. 6.0)	Rs Lakh	28,319
5.0	FAC Charge (FAC _{kWh}) or FOCA Charge (FOCA _{kWh}) without considering cap on monthly Charge (4.0/(1.0+2.0+3.0))	Paise/kWh	61.53
6.0	Cap on monthly FAC/FOCA Charge	Rs/kWh	
6.1	Cap at 10% of the variable component of tariff ²	Paise/kWh	
6.2	Cap at increase in CPI for a similar period	Paise/kWh	
6.3	Cap as lower of 6.1 and 6.2	Paise/kWh	-
7.0	FAC Charge (FAC _{kWh}) or FOCA Charge (FOCA _{kWh}) considering cap on monthly FAC Charge/FOCA Charge (lower of 5.0 and 6.3) ¹	Rs/kWh	0.62

Table 7.3
Title Recovery of FAC/FOCA Charge

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
1.0	FAC (A)/ FOCA (A) considering cap on Monthly FAC/FOCA Charge (Table 7.1, Sr. No. 6.0 x (Table 7.1, Sr. No. 1.0 + Table 7.1, Sr. No. 2.0))	Rs Lakh	24425.87
2.0	FAC(A)/ FOCA (A) disallowed corresponding to excess T&D loss (Table 7.1, Sr. No. 7.0 x Table 7.1, Sr. No. 3.0)	Rs Lakh	3892.84
3.0	Carried forward FAC (A)/ FOCA (A) for recovery during future period (Table 7.1, Sr. No. 4.0 - 1.0 - 2.0)	Rs Lakh	0.00

Table 8.1
Title Summary of FAC (A) and FAC_{kWh}

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
1.0	Calculation of FAC (A)		
1.1	Disallowance of change in variable cost of generation corresponding to excess auxiliary consumption	Rs Lakh	-
1.2	Change in weighted average variable cost of generation and power purchase after accounting for disallowance of change in variable cost corresponding to excess auxiliary consumption	Rs Lakh	-
1.3	Apportionment of change in variable cost of generation and power purchase to License Area (C)	Rs Lakh	28,319
1.4	Working Capital Interest (I)	Rs Lakh	-
1.5	Adjustment for Over Recovery/Under Recovery (B)	Rs Lakh	-
1.6	FAC (A) = C + I + B	Rs Lakh	28,319
2.0	Calculation of FAC_{kWh}		
2.1	Sale within License Area	MU	3,970
2.2	Excess T&D Loss	MU	633
2.3	FAC Charge (FAC _{kWh}) without considering cap on monthly FAC Charge	Paise/kWh	62
2.4	Cap on monthly FAC Charge	Rs/kWh	-
2.5	FAC Charge (FAC_{kWh}) considering cap on monthly FAC Charge	Rs/kWh	0.62
3.0	FAC (A)		
3.1	FAC (A) considering cap on Monthly FAC Charge	Rs Lakh	24,426
3.2	FAC (A) disallowed corresponding to excess T&D loss	Rs Lakh	3,893
3.3	Carried forward FAC (A) for recovery during future period	Rs Lakh	-