No. MERC/TPC/FAC/JULY06 – SEPT06/2006-07/657 April 04, 2007

Tata Power Company Ltd.,
Regulations Department,
Corporate Centre,
34, Sant Tukaram Road,
Carnac Bunder, Mumbai – 400 009.

Kind Attention: Shri J.D. Kulkarni, Dy GM

Sub : Approval of TPC Fuel Adjustment Charges (FAC) for July 2006 to September 2006.

Dear Sir,

With reference to your application dated 22nd December 2006 and revised application dated 26th March 2007 in pursuance of directions in the Tariff Order for F.Y. 2004-05, and subsequent correspondence on the above subject, I am directed to forward herewith the decision of the Commission (refer Annexure) for further necessary action.

The Commission has carried out the vetting of FAC amount for the months of July 2006 to September 2006, the summary of which is as under:

Particulars	Unit	Jul-06		Aug-06		Sep-06	
		TPC	COMMISSION	TPC	COMMISSION	TPC	COMMISSION
FAC (A) = C + I + B	Rs Lacs	28,412.25	28,412.25	29,185.66	29,185.66	32,784.53	32,784.53
FAC charge without considering cap on monthly FAC charge	Paise/kWh	309.65	309.65	285.22	285.22	339.62	339.62
FAC Charge considering cap on monthly FAC Charge	Paise/kWh	21.00	21.00	21.00	21.00	21.00	21.00
FAC considering cap on monthly FAC Charge	Rs. Lacs	1,925.62	1,925.62	2,148.90	2,148.90	2,027.17	2,027.17
FAC disallowed corresponding to excess T&D loss	Rs. Lacs	1.26	1.26	-	-	-	-
Carried Forward FAC for recovery during future period	**Rs. Lacs**	**26,485.37**	**26,485.37**	**27,036.76**	**27,036.76**	**30,757.35**	**30,757.35**

With Regards,

Yours faithfully,

Sd/-
(Smt. Malini Shankar)
Secretary, MERC

Encl: Detailed Vetting Report (34 Pages)

Cc:
Prayas Energy Group,
Amrita Clinic, Athawale Corner,
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The President,
Mumbai Grahak Panchayat,
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The General Secretary,
Thane Belapur Industries Association,
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The President,
Vidarbha Industries Association,
1st floor, Udyog Bhawan,
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Shri A.D. Mahajan,
Senior Manager,
SICOM Limited,
Nirmal, Nariman Point,
Mumbai – 400 021.

Detailed Vetting of Fuel Adjustment Cost (FAC) charges of Tata Power Company Ltd. (TPC) for the months of July 2006 to September 2006.
Attachment to MERC letter No. MERC/TPC/FAC/JULY06-SEPT06/2006-07 dated March 30, 2007.

1 TPC's Application for approval of FAC Charge for July 06 to September 06

As per the Tariff Order dated 11th June 2004, TPC is required to obtain post facto approval of the Commission on a quarterly basis for the FAC charged. The Commission has validated the FAC for June 2004 and issued detailed vetting report dated 4th January, 2005 detailing therein the methodology adopted to compute change in variable cost of generation and power purchase. The Commission has also validated the FAC for the months of April 2004 to March 2006 and issued detailed vetting report on 19th June 2006.

TPC vide its letter REG/MERC-SUB/06/224 dated 22nd December, 2006 and letter dated 26th March 2007 submitted the revised FAC submissions for the period July 2006 to September 2006. These submissions are in the standard formats prescribed by the Commission vide its letter dated 22nd August, 2005.

The methodology adopted by TPC for FAC calculations is as under :-

1) TPC has computed the change in variable cost of generation and power purchase on a composite basis by considering the change in weighted average cost of generation and power purchase.
2) TPC has considered the estimated generation and power purchase in MUs and estimated weighted average cost of generation and power purchase for each Unit, as per the Commission's directions in vetting report dated 4th January 2005 for calculating the change in the fuel cost.
3) TPC has apportioned the variable cost of generation from Unit 4 to the sale outside the licensed area i.e. MSEDCL and to its licensed area to the extent of the generation used to meet its peak requirement.

4) TPC has apportioned variable cost of own generation (other than the variable cost of generation from Unit 4) to sale within its licensed area and balance to the sale outside license area.

5) The entire generation from Hydel station has been apportioned to sale in License area.

The vetting by the Commission is based on the following orders :-

a. Tariff Order dated 11th June, 2004.

b. The vetting report dated 4th January, 2005 approving FAC of TPC for the month of June 2004.

c. The Commission's order dated 7th December, 2004 in the matter of "Drawal of power by TPC from MSEB and compliance of TPC Tariff Order".

d. The vetting report dated 19th June, 2006 approving FAC of TPC for the period April 2004 to March 2006.

Variable cost of generation -

While assessing the actual variable cost of generation, the Commission has assessed unit wise variable cost of generation and weighted average variable cost of generation considering the following:-

- Change in generation mix
- Change in fuel price
- Fuel handling charges
- Normative operating parameters (i.e. heat rate and auxiliary consumption) as set out in the Tariff Order.

Change in generation mix:

The Commission has carried out a broad assessment of adherence to the principles of merit order dispatch by comparing fuel wise, unit wise monthly gross generation with the levels considered in the Tariff Order and seeking justification for any material variation.

Change in Fuel Price :
Actual variable cost of power generation of each unit is certified by Cost Accountant. TPC also has submitted Fuel Analysis Report of representative monthly samples of fuels certified by an Independent Certification Agencies viz M/s Geo-Chem Laboratories Pvt Ltd, Mumbai and M/s SGS India Pvt Ltd, Mumbai in support of actual fuel calorific value.

Fuel Handling Cost :
The fuel handling cost has been worked out by TPC as per the formula considered by the Commission in its vetting report dated 4th January, 2005.

Normative Operating Parameters:
TPC has considered Unit-wise approved heat rate as per the Tariff Order for FY 2004-05 for computing actual Unit-wise, variable cost of generation on monthly basis and the same is allowed.

For this quarter, TPC has considered annual input average variable cost rate as per tariff order for FY 2004-05 as against earlier practice of month to month input average variable cost rate, which is in line with the practice followed by other utilities. TPC has also worked out change in VC of generation and power purchase for the first quarter also and incorporated in table 6.6 for July 06. The overall difference upto September 2006 due to above is under-recovery of Rs 378.9 lacs, which is allowed. Details are attached in Annexure – 4.

Disallowance of FAC corresponding to excess auxiliary Consumption:

TPC has considered Unit-wise norm of auxiliary consumption approved in the Tariff Order for computing Unit-wise excess auxiliary consumption. Fuel Adjustment Cost corresponding to excess auxiliary consumption has been disallowed by multiplying Unit-wise excess auxiliary consumption (apportioned to various fuels) with the increase in fuel wise unit wise variable cost of thermal generation. Fuel Adjustment Cost corresponding to excess auxiliary consumption for hydel generation has been disallowed by multiplying excess auxiliary consumption with the increase in weighted average cost of own generation.

TPC has computed disallowance of FAC for excess auxiliary consumption as Rs 25.30 lacs for July 06, Rs 19.73 lacs for August 06 and Rs 34.20 lacs for September 06 and the same has been considered by the Commission.

Variable cost of power purchase:
TPC has considered various alternate power purchase sources in addition to MSEB and accordingly purchased power from MSEDCL, MSEDCL-Jindal, MSEDCL-kawas, MSEDCL-DVC, Sikkim, WBSEB, Gridco, Assam, MSEDCL-KPCL, TPTCL-TISCO, TPTCL-CESC, TPTCL-GUVNL, Global Energy Ltd (Arunachal Pradesh) to meet the

growing demand of license area. The details of the power purchase quantity and rate are detailed in Table 4.1.

The Commission in its Orders dated 17th September 04 and 7th December 2004 cited the following points from various places of the Tariff Order and it states as under:

- *"The Commission directs TPC to enter into an alternative arrangement to purchase power during peak hours so as to ensure that load shedding is not required.*
- *It would be economical to buy part of quantity at higher rate rather than operating Unit 4 as a base load station.*
- *The Commission August consider permitting additional cost of purchase of power during peak hours for meeting energy requirement of License Area operations arising of shutdown of Unit 4, through FAC mechanism, based on evidence submitted by TPC to substantiate its claims.*
- *TPC August explore the option of selling electricity generated using unit 4 to MSEB and other states, in such a manner that there is no additional burden on consumers of the License Area."*

In view of the above, the Commission approves the additional power purchase from other sources through FAC mechanism considering the shortfall in peak requirement of energy. However, in future, TPC has to justify the power purchase in excess of approved limit.

Change in variable cost of own generation and power purchase

Change in variable cost of own generation and power purchase has been arrived at by multiplying total of gross generation and power purchase with the change in weighted average cost of generation and power purchase. Further the Commission has also considered the VAT refund obtained by TPC during the first quarter of FY 2006-07.

Apportionment of change in variable cost of own generation and power purchase cost to License Area.

The Commission in its report dated 4th January, 2005 has specified the formula for arriving at apportionment of change in variable cost of own generation and power purchase cost to License Area so that the consumers in the License Area benefit from the low cost generation from the hydel plants.

TPC has apportioned the change in variable cost of own generation and power purchase cost to License Area as per the said formula.

Interest on working capital –

TPC has not considered any interest on working capital due to change in prices of fuel and accordingly, the Commission has also not considered the same.

Adjustment factor for over recovery / under recovery –
While computing adjustment factor for over / under recovery "B", TPC has taken into account the incremental cost allowed to be recovered in the month of May 2006, June 2006 and July 2006 to be actually recovered in the month of July 2006, August 2006 & September 2006 respectively. The detailed working of adjustment factor for over / under recovery is shown in Table 6.6.

As mentioned earlier, due to change in methodology of calculating input average variable cost rate on annual basis as per tariff order for FY 2004-05 as against earlier practice of month to month input average variable cost rate, the under recovery of Rs 2068.77 Lacs is considered by TPC for first quarter. Details are given in Annexure – 4. This is allowed as other utilities also use this methodology.

TPC has also considered Under recovery of Rs 3731.08 Lacs (Rs 1871.08 Lacs + Rs 1860 Lacs) for April 06 & May 06 due to correction for first quarter as FAC amount recoverable in April 06 & May 06 (billed in February 06 and March 06) was already considered by the Commission in truing up upto 31st March, 2006, vide Order MERC/TPC/FAC/APR04-MAR 06/1293 dated 19th June 2006. This was not captured during vetting for 1st quarter inadvertently. (Details as per Annexure - 5). This under recovery of Rs. 3731.08 lacs for April 06 & May 06 is approved by the Commission.

The Commission has also factored the carried forward adjustment for over / under recovery attributable to application of ceiling limit in the computation of component "B".

Further, the actual fuel costs for the entire FY 2006-07 will be trued up based on audited accounts subject to prudence check at the time of Performance Review for first year (FY 2007-08) of Control Period.

Excess T & D Loss –
TPC has considered allowable T& D Loss at the normative T&D Loss rate of 2.41% as stipulated in the Tariff Order, and determined the excess T&D Loss for July 2006 to September 2006 by applying the formula as stipulated by the Commission in its vetting report dated 4th January, 2005. Excess T&D Loss has been assessed at 0.60 MUs in the month of July 2006, nil in August 2006 and nil in September 2006.
The FAC disallowed corresponding the excess T&D Loss for the month of July 2006 is Rs.1.26 lacs and the same is allowed.

Calculation of FAC per unit :-

FAC per unit has been computed by considering FAC (A) for the License area, Energy sales submitted by TPC for the License area and Excess T&D Loss. The Commission approves

the FAC rate of 309.65 paise/kWh, 285.22 paise/kWh, and 339.62 paise/kWh for the months of July, August and September 2006 respectively.

FAC charge considering monthly cap :-

Since FAC kWh for July to September 2006 is higher than the monthly ceiling of 21 paise / kWh on FAC charge, the FAC charge is capped at 21 paise/kWh. The FAC amount under recovered for the month attributable to application of the cap has been carried forwarded to the next month for inclusion as part of adjustment for over recovery / under recovery component of FAC (A).

Summary of FAC

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

Sr. No.	Parameter	Unit	Value					
(A)	(B)	(C)	Jul-06		Aug-06		Sep-06	
			TPC	Commission	TPC	Commission	TPC	Commission
1.0	Calculation of FAC (A)							
1.1	Disallowance of change in variable cost of generation corresponding to excess auxiliary consumption	Rs Lakh	25.30	25.30	19.73	19.73	34.20	34.20
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	7,740.06	7,740.06	2,596.60	2,596.60	6,087.26	6,087.26
1.3	Apportionment of change in variable cost of generation and power purchase to License Area (C)	Rs Lakh	7,724.81	7,724.81	2,568.05	2,568.05	5,977.12	5,977.12
1.4	Working Capital Interest (I)	Rs Lakh	-	-	-	-	-	-
1.5	Adjustment for Over Recovery/Under Recovery (B)	Rs Lakh	20,687.44	20,687.44	26,617.60	26,617.60	26,807.41	26,807.41
1.6	FAC (A) = C + I + B	Rs Lakh	28,412.25	28,412.25	29,185.66	29,185.66	32,784.53	32,784.53
2.0	Calculation of FAC_{kWh}				-		-	
2.1	Sale within License Area	MU	916.96	916.96	1,023.29	1,023.29	965.32	965.32
2.2	Excess T&D Loss	MU	0.60	0.60	-	-	-	-
2.3	FAC Charge (FAC_{kWh}) without considering cap on monthly FAC Charge	Paise/kWh	309.65	309.65	285.22	285.22	339.62	339.62
2.4	Cap on monthly FAC Charge	Paise/kWh	21.00	21.00	21.00	21.00	21.00	21.00
2.5	FAC Charge (FAC_{kWh}) considering cap on monthly FAC Charge	Paise/kWh	21.00	21.00	21.00	21.00	21.00	21.00
3.0	FAC (A)							
3.1	FAC (A) considering cap on Monthly FAC Charge (Est)	Rs Lakh	1,925.62	1,925.62	2,148.90	2,148.90	2,027.17	2,027.17
3.2	FAC (A) disallowed corresponding to excess T&D loss (Est)	Rs Lakh	1.26	1.26	-	-	-	-
3.3	Carried forward FAC (A) for recovery during future period (Est)	Rs Lakh	26,485.37	26,485.37	27,036.76	27,036.76	30,757.35	30,757.35

Table No	Title
3.1	Heat Rate for Thermal Generating Station/unit
3.3	Calculation of Station/Unitwise variable cost of generation (fuel cost)
3.4	Disallowance of FAC for Excess Auxiliary Consumption
4.1	Variable Cost of Power Purchase
6.1	Composite Variable Cost of Generation and Power Purchase
6.2	Change in Variable Cost of Generation and Power Purchase (C) - Format I
6.4	Apportionment of change in variable cost of generation and power purchase (C) to License Area
6.6	Adjustment for over recovery / under recovery (B)
6.7	Total fuel cost and power purchase adjustment
7.1	Calculation of per unit FAC charge
8.1	Summary of FAC (A) and FAC kwh

July 2006

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 July			July - 2006				Normative Actual Var. Cost4 for July - 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														
	Hydro	Water	1,336.10	-	-	111.34	-	-	265.49		-	-	265.49	-	-
	Unit # 7	Gas	1,197.40	0.62	7,423.88	99.78	0.62	618.66	95.97		0.65	627.90	95.97	0.70	673.00
	Unit # 6	Gas	102.70	0.71	729.17	8.56	0.71	60.76	28.17		0.89	250.46	28.17	0.81	228.78
	Unit # 5	Gas	-	0.75	-	-	0.75	-	-		-	-	-	0.85	-
	Unit # 4	Gas	-	0.79	-	-	0.79	-	0.19		0.97	1.86	0.19	0.89	1.71
	Unit # 5	Coal	3,844.00	1.18	45,359.20	320.33	1.18	3,779.93	201.86		1.25	2,519.87	201.86	1.23	2,478.46
	Unit # 6	Oil	3,660.20	2.50	91,505.00	305.02	2.50	7,625.42	228.91			11,643.54	228.91	5.01	11,478.63
	Unit # 5	Oil	340.20	2.62	8,913.24	28.35	2.62	742.77	8.624		5.39	464.83	8.62	5.25	452.61
	Unit # 4	Oil	111.60	2.76	3,080.16	9.30	2.76	256.68	67.33		5.50	3,701.63	67.33	5.52	3,716.89
2.0	Generating Station/ Unit wise summary														
	Hydro	All fuels	1,336.10	-	-	111.34	-	-	265.49		-	-	265.49	-	-
	Unit # 4	All fuels	111.60	2.76	3,080.16	9.30	2.76	256.68	67.52		5.49	3,703.48	67.52	5.51	3,718.60
	Unit # 5	All fuels	4,184.20	1.30	54,272.44	348.68	1.30	4,522.70	210.48		1.42	2,984.70	210.48	1.39	2,931.08
	Unit # 6	All fuels	3,762.90	2.45	92,234.17	313.58	2.45	7,686.18	257.09		4.63	11,894.00	257.09	4.55	11,707.41
	Unit # 7	All fuels	1,197.40	0.62	7,423.88	99.78	0.62	618.66	95.97		0.65	627.90	95.97	0.70	673.00
3.0	Total for all Generating Stations /Units														
	Total Generation excl FHC	All fuels	10,592.20	1.48	157,010.65	882.68	1.48	13,084.22	896.55		2.14	19,210.08	896.55	2.12	19,030.08
	Fuel Handling Cost (FHC)				1,090.00			90.83				75.18			75.18
	Generation including FHC		10,592.20	1.49	158,100.65	882.68	1.49	13,175.05	896.55		2.15	19,285.26	896.55	2.13	19,105.27
4.0	Generation corresponding to Utilisation of Specific Generating Station/ Unit corresponding to sale mentioned at Table 1.1, Item 3[5]														
	Unit # 4 / Unit # 6	Oil	-	-	-	-	-	-	-		-	-	-	-	-
5.0	Total for all Generating Stations/Units excl. generation reported at (4.0)		10,592.20	1.49	158,100.65	882.68	1.49	13,175.05	896.55		2.15	19,285.26	896.55	2.13	19,105.27

Table 3.4
Title Disallowance of FAC for Excess Auxiliary Consumption[1]

Sr. No.	Generating Station/Unit	Fuel Basket (FB)	July - 2006			
			Excess Aux Cons[2]	Change in Var. Cost[3]	Increase in Var. Cost[4]	Disallowance[5]
			MU	Rs/kWh	Rs/kWh	Rs Lakh
(A)	(B)	(C)	(D)	(E)	(F) = max(E,0)	(G) = (D) * (F)
	Hydro	Water	-	0.6384	0.6384	-
	Unit # 4	Gas	0.00	0.1040	0.1040	0.00
	Unit # 4	Oil	0.38	2.7606	2.7606	10.47
	Unit # 4	All Fuel	0.38			10.48
	Unit # 5	Gas	-	0.0999	0.0999	-
	Unit # 5	Coal	2.19	0.0478	0.0478	1.05
	Unit # 5	Oil	0.09	2.6282	2.6282	2.45
	Unit # 5	All Fuel	2.28			3.50
	Unit # 6	Gas	0.06	0.1021	0.1021	0.06
	Unit # 6	Oil	0.45	2.5144	2.5144	11.27
	Unit # 6	All Fuel	0.50			11.32
	Unit # 7	Gas	-	0.0813	0.0813	-
	Unit # 7	All Fuel	-			-
	Total for all Generating Stations/Units		3.16			25.30

Table 4.1
Title Variable cost of power purchase[1&11]

Sr. No.	Power Purchase Source[2]	Order (FY)			Order for July - 2006			Actual for July - 2006							
		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)
(7)	MSEDCL-Peak	61.50	2.99	1,838.85	5.13	2.99	153.24	51.53	2.99	1,540.81	51.53	1.03	530.78	2,071.60	2.99
(8)	MSEDCL-Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(9)	MSEDCL-Jindal	-	-	-	-	-	-	-	-	17.81				17.81	-
(10)	MSEDCL-Kawas-Liquid	-	-	-	-	-	-	-	-	146.39				146.39	-
(11)	MSEDCL-Kawas-Gas	-	-	-	-	-	-	3.78	6.05	228.53				228.53	6.05
(12)	MSEDCL-DVC	-	-	-	-	-	-	-	-	-				-	-
(13)	MSEDCL-Sikkim	-	-	-	-	-	-	-	-	-				-	-
(14)	MSEDCL-WBSEB	-	-	-	-	-	-	-	-	-				-	-
(15)	MSEDCL-Gridco	-	-	-	-	-	-	-	-	-				-	-
(16)	MSEDCL-Assam	-	-	-	-	-	-	-	-	-				-	-
(17)	MSEDCL-KPCL	-	-	-	-	-	-	2.51	4.09	102.75				102.75	4.09
(18)	TPTCL-Jindal	-	-	-	-	-	-	-	-	-				-	-
(19)	TPTCL-TISCO	-	-	-	-	-	-	13.10	4.07	532.94				532.94	4.07
(20)	TPTCL-CESC	-	-	-	-	-	-	-	-	-				-	-
(21)	TPTCL-TISCO (DA)	-	-	-	-	-	-	1.79	3.94	70.63				70.63	3.94
(22)	GEL-Arp	-	-	-	-	-	-	2.34	4.04	94.62				94.62	4.04
(23)	MSEDCL-Gandhar	-	-	-	-	-	-	0.53	2.71	14.32				14.32	2.71
(24)	TPTCL-GUVNL	-	-	-	-	-	-	-	-	-				-	-
	Total Power Purchase	61.50	2.99	1,838.85	5.13	2.99	153.24	75.58	3.64	2,748.81	51.53	103.00	530.78	3,279.59	4.34

Table 6.1
Title Composite variable cost of generation and power purchase

Sr. No.	Parameter	Order (FY)			Order for July - 2006			Actual for July - 2006			Normative Actual4 for July - 2006		
		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)	10,592.20	1.49	158,100.65	882.68	1.49	13,175.05	896.55	2.15	19,285.26	896.55	2.1310	19,105.27
2.0	Disallowance of FAC for Excess Auxiliary Consumption (Table No. 3.4)												25.30
3.0	Net Power Purchase (Table No. 4.1)	61.50	2.99	1,838.85	5.13	2.99	153.24	75.58	4.34	3,279.59	75.58	4.3390	3,279.59
4.0	Own Generation + Net Power Purchase (1.0-2.0+3.0)	10,653.70	1.5013	159,939.50	887.81	1.5013	13,328.29	972.13	2.32	22,564.85	972.13	2.3001	22,359.56

Table	6.2
Title	Change in variable cost of generation and power purchase (C) - Format 1
For	July - 2006

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 July - 2006 (Table No.6.1 Sr. No.4.0, Col. No. (H))	Rs/kWh	1.5013
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	2.3001
3.0	Change in variable cost of generation and power purchase (2.0-1.0)	Rs/kWh	0.798797
4.0	Generation[1] + Net Power Purchase (Table No.6.1 Sr. No.4.0, Col. No. (L))	MU	972.13
5.0	Change in variable cost of generation and power purchase (3.0 x 4.0)	Rs Lakh	7,765.36

Table	6.4
Title	Apportionment of change in variable cost of generation and power purchase (C) to License Area
For	July - 2006

Sr. No.	Parameter	Unit	Sale within License Area	Sale outside License Area	Total
(A)	(B)	(C)	(D)	(E)	(F) = (D) + (E)
1	Energy Sales (Table 1.1, Sr. No. 5.0)	MU	916.96	1.30	918.26
2	Apportionment of Generation and Power purchase				
2.1	Apportionment of hydel generation[1]	MU	264.79	-	264.79
2.2	Apportionment of net thermal generation and power purchase[2&3] (Table 3.3, Sr. No. 5.0)	MU	675.33	1.33	676.66
2.3	Apportionment of generation and power purchase (2.2 + 2.3)	MU	940.12	1.33	941.46
3	Apportionment of change in variable cost of generation and power purchase (Table 6.2, Sr. No. 5.0) in proportion of 2.2 above	Rs Crore	7,750.06	15.30	7,765.36

Table 6.6
Title Adjustment for Over-Recovery/Under-Recovery (B)

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
			Jul-06
1.0	Adjustment for over-recovery/under-recovery ('B')		
1.1	Incremental cost allowed to be recoverd in Month j-4	Rs Lakh	2,090.74
1.2	Incremental cost in Month j-4 actually recovered in month j-2	Rs Lakh	2,060.98
1.3	over-recovery/under-recovery (1.2-1.1)	Rs Lakh	29.76
2.0	Carried forward adjustment for over-recovery/under-recovery attributable to application of ceiling limit	Rs Lakh	14,857.83
2.01	Add: Under recovery for Q1 due to considering avg VC rate on monthly basis earlier rather than avg VC rate as per Tariff Order (Rs 1.50/kWh)* (Annexure - 4)		2,068.77
2.02	Add: Under recovery for April 06 & May 06 due to correction as FAC amount recoverable in April 06 & May 06 was already considered in FAC vetting by Commission vide Order MERC/TPC/FAC/APR04-MAR 06/1293 dated 19th June 2006 against Feb 06 & March 06. (Details as per Annexure - 5) @		3,731.08
3.0	Adjustment factor for over-recovery/under-recovery (1.5+2.0+2.01)	Rs Lakh	20,687.44

*This has been revised to make the computations in line with the practices followed by other utilities for FAC computation. Monthwise under recovery is Rs 664.38 Lacs, Rs 878.15 Lacs & Rs 526.24 lacs for April 06, May 06 & Jun 06 respectively. For Q2, the calculations are based on the methodology.

@ Under recovery of 3731.08 Lacs for April 06 & May 06 is calculated as Rs 1871 Lacs + Rs 1860 Lacs considered in Feb 06 & March 06

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

Sr. No.	Parameter	Unit	
(A)	(B)	(C)	
			Jul-06
1.0	Calculation of FAC (A)		
1.1	Disallowance of change in variable cost of generation corresponding to excess auxiliary consumption	Rs Lakh	25.30
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 conumption	Rs Lakh	7,740.06
1.3	Apportionment of change in variable cost of generation and power purchase to License Area (C)	Rs Lakh	7,724.81
1.4	Working Capital Interest (I)	Rs Lakh	-
1.5	Adjustment for Over Recovery/Under Recovery (B)	Rs Lakh	20,687.44
1.6	FAC (A) = C + I + B	Rs Lakh	28,412.25
2.0	Calculation of FAC_{kWh}		
2.1	Sale within License Area	MU	916.96
2.2	Excess T&D Loss	MU	0.60
2.3	FAC Charge (FAC_{kWh}) without considering cap on monthly FAC Charge	Paise/kWh	309.65
2.4	Cap on monthly FAC Charge	Paise/kWh	21.00
2.5	FAC Charge (FAC_{kWh}) considering cap on monthly FAC Charge	Paise/kWh	21.00
3.0	FAC (A)		
3.1	FAC (A) considering cap on Monthly FAC Charge (Est)	Rs Lakh	1,925.62
3.2	FAC (A) disallowed corresponding to excess T&D loss (Est)	Rs Lakh	1.26
3.3	Carried forward FAC (A) for recovery during future period (Est)	Rs Lakh	26,485.37

August 2006

Table	3.1					
Title	Heat Rate for Thermal Generating Station/Unit					
Sr. No.	Generating Station/Unit[1]	Order FY	August - 2006			
		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)
1.0	Unit # 4	2,574.00	49.085	126,419.67	2,575.53	
2.0	Unit # 5	2,447.00	320.175	807,392.52	2,521.72	
3.0	Unit # 6	2,338.00	232.485	562,283.68	2,418.58	
4.0	Unit # 7	2,019.00	38.24	85,570.96	2,237.73	
	Total for Thermal Generation		639.985	1581666.819	2,471.41	

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 August			August - 2006				Normative Actual Var. Cost4 for August - 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														
	Hydro	Water	1,336.10	-	-	111.34	-	-	366.44		-	-	366.44	-	-
	Unit # 7	Gas	1,197.40	0.62	7,423.88	99.78	0.62	618.66	38.24		0.77	295.50	38.24	0.70	266.61
	Unit # 6	Gas	102.70	0.71	729.17	8.56	0.71	60.76	65.97		0.84	550.96	65.97	0.81	532.60
	Unit # 5	Gas	-	0.75	-	-	0.75	-	1.05		0.87	9.12	1.05	0.85	8.85
	Unit # 4	Gas	-	0.79	-	-	0.79	-	10.92		0.89	97.09	10.92	0.89	97.04
	Unit # 5	Coal	3,844.00	1.18	45,359.20	320.33	1.18	3,779.93	314.80		1.27	3,990.87	314.80	1.23	3,872.61
	Unit # 6	Oil	3,660.20	2.50	91,505.00	305.02	2.50	7,625.42	166.52			8,949.38	166.52	5.20	8,662.33
	Unit # 5	Oil	340.20	2.62	8,913.24	28.35	2.62	742.77	4.327		5.69	246.06	4.33	5.44	235.58
	Unit # 4	Oil	111.60	2.76	3,080.16	9.30	2.76	256.68	38.17		5.75	2,195.45	38.17	5.73	2,185.95
2.0	Generating Station/ Unit wise summary														
	Hydro	All fuels	1,336.10	-	-	111.34	-	-	366.44		-	-	366.44	-	-
	Unit # 4	All fuels	111.60	2.76	3,080.16	9.30	2.76	256.68	49.09		4.67	2,292.55	49.09	4.65	2,282.98
	Unit # 5	All fuels	4,184.20	1.30	54,272.44	348.68	1.30	4,522.70	320.18		1.33	4,246.05	320.18	1.29	4,117.04
	Unit # 6	All fuels	3,762.90	2.45	92,234.17	313.58	2.45	7,686.18	232.49		4.09	9,500.34	232.49	3.96	9,194.94
	Unit # 7	All fuels	1,197.40	0.62	7,423.88	99.78	0.62	618.66	38.24		0.77	295.50	38.24	0.70	266.61
3.0	Total for all Generating Stations /Units														
	Total Generation excl FHC	All fuels	10,592.20	1.48	157,010.65	882.68	1.48	13,084.22	1,006.43		1.62	16,334.44	1,006.43	1.58	15,861.57
	Fuel Handling Cost (FHC)				1,090.00			90.83				437.83			112.14
	Generation including FHC		10,592.20	1.49	158,100.65	882.68	1.49	13,175.05	1,006.43		1.67	16,772.27	1,006.43	1.59	15,973.71
4.0	Generation corresponding to Utilisation of Specific Generating Station/ Unit corresponding to sale mentioned at Table 1.1, Item 3[5]														
	Unit # 4 / Unit # 6	Oil	-	-	-	-	-	-	-		-	-	-	-	-
5.0	Total for all Generating Stations/Units excl. generation reported at (4.0)		10,592.20	1.49	158,100.65	882.68	1.49	13,175.05	1,006.43		1.67	16,772.27	1,006.43	1.59	15,973.71

Table 3.4
Title Disallowance of FAC for Excess Auxiliary Consumption[1]

Sr. No.	Generating Station/Unit	Fuel Basket (FB)	August - 2006			
			Excess Aux Cons[2]	Change in Var. Cost[3]	Increase in Var. Cost[4]	Disallowance[5]
			MU	Rs/kWh	Rs/kWh	Rs Lakh
(A)	(B)	(C)	(D)	(E)	(F) = max(E,0)	(G) = (D) * (F)
	Hydro	Water	-	0.0946	0.0946	-
	Unit # 4	Gas	0.01	0.0989	0.0989	0.01
	Unit # 4	Oil	0.02	2.9672	2.9672	0.61
	Unit # 4	All Fuel	0.03			0.61
	Unit # 5	Gas	0.00	0.0950	0.0950	0.00
	Unit # 5	Coal	0.30	0.0502	0.0502	0.15
	Unit # 5	Oil	0.00	2.8246	2.8246	0.12
	Unit # 5	All Fuel	0.30			0.26
	Unit # 6	Gas	0.27	0.0974	0.0974	0.26
	Unit # 6	Oil	0.68	2.7021	2.7021	18.45
	Unit # 6	All Fuel	0.95			18.72
	Unit # 7	Gas	0.17	0.0772	0.0772	0.13
	Unit # 7	All Fuel	0.17			0.13
	Total for all Generating Stations/Units		1.46			19.73

Table 4.1
Title Variable cost of power purchase[1&11]

Sr. No.	Power Purchase Source[2]	Order (FY)			Order for August - 2006			Actual for August - 2006							
		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)
(7)	MSEDCL-Peak	61.50	2.99	1,838.85	5.13	2.99	153.24	33.87	2.99	1,012.77	33.87	1.03	348.88	1,361.65	2.99
(8)	MSEDCL-Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(9)	MSEDCL-Jindal	-	-	-	-	-	-	-	-	-				-	-
(10)	MSEDCL-Kawas-Liquid	-	-	-	-	-	-	-	-	-				-	-
(11)	MSEDCL-Kawas-Gas	-	-	-	-	-	-	-	-	-				-	-
(12)	MSEDCL-DVC	-	-	-	-	-	-	-	-	-				-	-
(13)	MSEDCL-Sikkim	-	-	-	-	-	-	-	-	-				-	-
(14)	MSEDCL-WBSEB	-	-	-	-	-	-	-	-	-				-	-
(15)	MSEDCL-Gridco	-	-	-	-	-	-	-	-	-				-	-
(16)	MSEDCL-Assam	-	-	-	-	-	-	-	-	-				-	-
(17)	MSEDCL-KPCL	-	-	-	-	-	-	-	-	-				-	-
(18)	TPTCL-Jindal	-	-	-	-	-	-	-	-	-				-	-
(19)	TPTCL-TISCO	-	-	-	-	-	-	-	-	48.44				48.44	-
(20)	TPTCL-CESC	-	-	-	-	-	-	-	-	-				-	-
(21)	TPTCL-TISCO (DA)	-	-	-	-	-	-	-	-	-				-	-
(22)	GEL-Arp	-	-	-	-	-	-	23.70	3.71	879.66				879.66	3.71
(23)	MSEDCL-Gandhar	-	-	-	-	-	-	-	-	-				-	-
(24)	TPTCL-GUVNL	-	-	-	-	-	-	19.36	3.29	636.69				636.69	3.29
	Total Power Purchase	61.50	2.99	1,838.85	5.13	2.99	153.24	76.94	3.35	2,577.56	33.87	103.00	348.88	2,926.44	3.80

Table 6.1
Title Composite variable cost of generation and power purchase

Sr. No.	Parameter	Order (FY)			Order for August - 2006			Actual for August - 2006			Normative Actual4 for August - 2006		
		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)	10,592.20	1.49	158,100.65	882.68	1.49	13,175.05	1,006.43	1.67	16,772.27	1,006.43	1.5872	15,973.71
2.0	Disallowance of FAC for Excess Auxiliary Consumption (Table No. 3.4)												19.73
3.0	Net Power Purchase (Table No. 4.1)	61.50	2.99	1,838.85	5.13	2.99	153.24	76.94	3.80	2,926.44	76.94	3.8036	2,926.44
4.0	Own Generation + Net Power Purchase (1.0-2.0+3.0)	10,653.70	1.5013	159,939.50	887.81	1.5013	13,328.29	1,083.36	1.82	19,698.71	1,083.36	1.7428	18,880.42

Table	6.2
Title	Change in variable cost of generation and power purchase (C) - Format 1
For	August - 2006

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 August - 2006 (Table No.6.1 Sr. No.4.0, Col. No. (H))	Rs/kWh	1.5013
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	1.7428
3.0	Change in variable cost of generation and power purchase (2.0-1.0)	Rs/kWh	0.241501
4.0	Generation[1] + Net Power Purchase (Table No.6.1 Sr. No.4.0, Col. No. (L))	MU	1,083.36
5.0	Change in variable cost of generation and power purchase (3.0 x 4.0)	Rs Lakh	2,616.33

Table	6.4
Title	Apportionment of change in variable cost of generation and power purchase (C) to License Area
For	August - 2006

Sr. No.	Parameter	Unit	Sale within License Area	Sale outside License Area	Total
(A)	(B)	(C)	(D)	(E)	(F) = (D) + (E)
1	Energy Sales (Table 1.1, Sr. No. 5.0)	MU	1,023.29	7.39	1,030.68
2	Apportionment of Generation and Power purchase				
2.1	Apportionment of hydel generation[1]	MU	365.66	-	365.66
2.2	Apportionment of net thermal generation and power purchase[2&3] (Table 3.3, Sr. No. 5.0)	MU	678.61	7.54	686.16
2.3	Apportionment of generation and power purchase (2.2 + 2.3)	MU	1,044.27	7.54	1,051.82
3	Apportionment of change in variable cost of generation and power purchase (Table 6.2, Sr. No. 5.0) in proportion of 2.2 above	Rs Crore	2,587.57	28.76	2,616.33

Table	6.6
Title	Adjustment for Over-Recovery/Under-Recovery (B)

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
			Aug-06
1.0	Adjustment for over-recovery/under-recovery ('B')		
1.1	Incremental cost allowed to be recoverd in Month j-4	Rs Lakh	2,072.80
1.2	Incremental cost in Month j-4 actually recovered in month j-2	Rs Lakh	1,940.56
1.3	over-recovery/under-recovery (1.2-1.1)	Rs Lakh	132.24
2.0	Carried forward adjustment for over-recovery/under-recovery attributable to application of ceiling limit	Rs Lakh	26,485.37
3.0	Adjustment factor for over-recovery/under-recovery (1.5+2.0+2.01)	Rs Lakh	26,617.60

Table	8.1		
Title	Summary of FAC (A) and FAC_{kWh}		
Sr. No.	Parameter	Unit	
(A)	(B)	(C)	
			Aug-06
1.0	Calculation of FAC (A)		
1.1	Disallowance of change in variable cost of generation corresponding to excess auxiliary consumption	Rs Lakh	19.73
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 conumption	Rs Lakh	2,596.60
1.3	Apportionment of change in variable cost of generation and power purchase to License Area (C)	Rs Lakh	2,568.05
1.4	Working Capital Interest (I)	Rs Lakh	-
1.5	Adjustment for Over Recovery/Under Recovery (B)	Rs Lakh	26,617.60
1.6	FAC (A) = C + I + B	Rs Lakh	29,185.66
2.0	Calculation of FAC_{kWh}		
2.1	Sale within License Area	MU	1,023.29
2.2	Excess T&D Loss	MU	-
2.3	FAC Charge (FAC_{kWh}) without considering cap on monthly FAC Charge	Paise/kWh	285.22
2.4	Cap on monthly FAC Charge	Paise/kWh	21.00
2.5	FAC Charge (FAC_{kWh}) considering cap on monthly FAC Charge	Paise/kWh	21.00
3.0	FAC (A)		
3.1	FAC (A) considering cap on Monthly FAC Charge (Est)	Rs Lakh	2,148.90
3.2	FAC (A) disallowed corresponding to excess T&D loss (Est)	Rs Lakh	-
3.3	Carried forward FAC (A) for recovery during future period (Est)	Rs Lakh	27,036.76

September 2006

Table 3.1
Title Heat Rate for Thermal Generating Station/Unit

Sr. No.	Generating Station/Unit[1]	Order FY	September - 2006			
		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)
1.0	Unit # 4	2,574.00	54.479	140,288.43	2,575.09	
2.0	Unit # 5	2,447.00	333.325	848,925.05	2,546.84	
3.0	Unit # 6	2,338.00	241.495	571,820.72	2,367.84	
4.0	Unit # 7	2,019.00	111.772	222,829.94	1,993.61	
	Total for Thermal Generation		741.071	1783864.14	2,407.14	

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 September			September - 2006				Normative Actual Var. Cost4 for September - 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														
	Hydro	Water	1,336.10	-	-	111.34	-	-	245.62		-	-	245.62	-	-
	Unit # 7	Gas	1,197.40	0.62	7,423.88	99.78	0.62	618.66	111.77		0.69	776.48	111.77	0.70	785.98
	Unit # 6	Gas	102.70	0.71	729.17	8.56	0.71	60.76	7.21		0.82	59.04	7.21	0.81	58.68
	Unit # 5	Gas	-	0.75	-	-	0.75	-	-		-	-	-	0.85	-
	Unit # 4	Gas	-	0.79	-	-	0.79	-	-		-	-	-	0.90	-
	Unit # 5	Coal	3,844.00	1.18	45,359.20	320.33	1.18	3,779.93	330.28		1.38	4,571.12	330.28	1.33	4,391.93
	Unit # 6	Oil	3,660.20	2.50	91,505.00	305.02	2.50	7,625.42	234.29			11,764.12	234.29	4.96	11,612.68
	Unit # 5	Oil	340.20	2.62	8,913.24	28.35	2.62	742.77	3.047		5.44	165.76	3.05	5.19	158.06
	Unit # 4	Oil	111.60	2.76	3,080.16	9.30	2.76	256.68	54.48		5.45	2,969.62	54.48	5.46	2,972.85
2.0	Generating Station/ Unit wise summary														
	Hydro	All fuels	1,336.10	-	-	111.34	-	-	245.62		-	-	245.62	-	-
	Unit # 4	All fuels	111.60	2.76	3,080.16	9.30	2.76	256.68	54.48		5.45	2,969.62	54.48	5.46	2,972.85
	Unit # 5	All fuels	4,184.20	1.30	54,272.44	348.68	1.30	4,522.70	333.33		1.42	4,736.88	333.33	1.37	4,549.99
	Unit # 6	All fuels	3,762.90	2.45	92,234.17	313.58	2.45	7,686.18	241.50		4.90	11,823.16	241.50	4.83	11,671.35
	Unit # 7	All fuels	1,197.40	0.62	7,423.88	99.78	0.62	618.66	111.77		0.69	776.48	111.77	0.70	785.98
3.0	Total for all Generating Stations /Units														
	Total Generation excl FHC	All fuels	10,592.20	1.48	157,010.65	882.68	1.48	13,084.22	986.69		2.06	20,306.14	986.69	2.02	19,980.17
	Fuel Handling Cost (FHC)				1,090.00			90.83				107.27			107.27
	Generation including FHC		10,592.20	1.49	158,100.65	882.68	1.49	13,175.05	986.69		2.07	20,413.40	986.69	2.04	20,087.44
4.0	Generation corresponding to Utilisation of Specific Generating Station/ Unit corresponding to sale mentioned at Table 1.1, Item 3[5]														
	Unit # 4 / Unit # 6	Oil	-	-	-	-	-	-	-		-	-	-	-	-
5.0	Total for all Generating Stations/Units excl. generation reported at (4.0)		10,592.20	1.49	158,100.65	882.68	1.49	13,175.05	986.69		2.07	20,413.40	986.69	2.04	20,087.44

Table 3.4
Title Disallowance of FAC for Excess Auxiliary Consumption[1]

Sr. No.	Generating Station/Unit	Fuel Basket (FB)	September - 2006			
			Excess Aux Cons[2]	Change in Var. Cost[3]	Increase in Var. Cost[4]	Disallowance[5]
			MU	Rs/kWh	Rs/kWh	Rs Lakh
(A)	(B)	(C)	(D)	(E)	(F) = max(E,0)	(G) = (D) * (F)
	Hydro	Water	-	0.5432	0.5432	-
	Unit # 4	Gas	-	0.1065	0.1065	-
	Unit # 4	Oil	-	2.6969	2.6969	-
	Unit # 4	All Fuel	-			-
	Unit # 5	Gas	-	0.1023	0.1023	-
	Unit # 5	Coal	-	0.1498	0.1498	-
	Unit # 5	Oil	-	2.5676	2.5676	-
	Unit # 5	All Fuel	-			-
	Unit # 6	Gas	0.04	0.1043	0.1043	0.04
	Unit # 6	Oil	1.39	2.4566	2.4566	34.16
	Unit # 6	All Fuel	1.43			34.20
	Unit # 7	Gas	-	0.0832	0.0832	-
	Unit # 7	All Fuel	-			-
	Total for all Generating Stations/Units		1.43			34.20

Table 4.1
Title Variable cost of power purchase[1&11]

Sr. No.	Power Purchase Source[2]	Order (FY)			Order for September - 2006			Actual for September - 2006							
		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)
(7)	MSEDCL-Peak	61.50	2.99	1,838.85	5.13	2.99	153.24	10.97	2.99	328.02	10.97	0.09	10.06	338.08	2.99
(8)	MSEDCL-Others	-	-	-	-	-	-	6.42	5.15	330.88	6.42	-	-	330.88	5.15
(9)	MSEDCL-Jindal	-	-	-	-	-	-	-	-	-				-	-
(10)	MSEDCL-Kawas-Liquid	-	-	-	-	-	-	-	-	-				-	-
(11)	MSEDCL-Kawas-Gas	-	-	-	-	-	-	-	-	-				-	-
(12)	MSEDCL-DVC	-	-	-	-	-	-	-	-	-				-	-
(13)	MSEDCL-Sikkim	-	-	-	-	-	-	-	-	-				-	-
(14)	MSEDCL-WBSEB	-	-	-	-	-	-	-	-	-				-	-
(15)	MSEDCL-Gridco	-	-	-	-	-	-	-	-	-				-	-
(16)	MSEDCL-Assam	-	-	-	-	-	-	-	-	-				-	-
(17)	MSEDCL-KPCL	-	-	-	-	-	-	-	-	-				-	-
(18)	TPTCL-Jindal	-	-	-	-	-	-	-	-	-				-	-
(19)	TPTCL-TISCO	-	-	-	-	-	-	0.01	319.36	40.87				40.87	319.36
(20)	TPTCL-CESC	-	-	-	-	-	-	-	-	-				-	-
(21)	TPTCL-TISCO (DA)	-	-	-	-	-	-	-	-	-				-	-
(22)	GEL-Arp	-	-	-	-	-	-	18.90	3.79	716.20				716.20	3.79
(23)	MSEDCL-Gandhar	-	-	-	-	-	-	-	-	-				-	-
(24)	TPTCL-GUVNL	-	-	-	-	-	-	-	-	-				-	-
	Total Power Purchase	61.50	2.99	1,838.85	5.13	2.99	153.24	36.30	3.90	1,415.97	17.39	5.79	10.06	1,426.03	3.93

Table 6.1
Title Composite variable cost of generation and power purchase

Sr. No.	Parameter	Order (FY)			Order for September - 2006			Actual for September - 2006			Normative Actual4 for September - 2006		
		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)	10,592.20	1.49	158,100.65	882.68	1.49	13,175.05	986.69	2.07	20,413.40	986.69	2.0358	20,087.44
2.0	Disallowance of FAC for Excess Auxiliary Consumption (Table No. 3.4)												34.20
3.0	Net Power Purchase (Table No. 4.1)	61.50	2.99	1,838.85	5.13	2.99	153.24	36.30	3.93	1,426.03	36.30	3.9283	1,426.03
4.0	Own Generation + Net Power Purchase (1.0-2.0+3.0)	10,653.70	1.5013	159,939.50	887.81	1.5013	13,328.29	1,023.00	2.13	21,839.43	1,023.00	2.0996	21,479.27

Table	6.2
Title	Change in variable cost of generation and power purchase (C) - Format 1
For	September - 2006

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 September - 2006 (Table No.6.1 Sr. No.4.0, Col. No. (H))	Rs/kWh	1.5013
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	2.0996
3.0	Change in variable cost of generation and power purchase (2.0-1.0)	Rs/kWh	0.598385
4.0	Generation[1] + Net Power Purchase (Table No.6.1 Sr. No.4.0, Col. No. (L))	MU	1,023.00
5.0	Change in variable cost of generation and power purchase (3.0 x 4.0)	Rs Lakh	6,121.46

Table	6.4
Title	Apportionment of change in variable cost of generation and power purchase (C) to License Area
For	September - 2006

Sr. No.	Parameter	Unit	Sale within License Area	Sale outside License Area	Total
(A)	(B)	(C)	(D)	(E)	(F) = (D) + (E)
1	Energy Sales (Table 1.1, Sr. No. 5.0)	MU	965.32	13.32	978.65
2	Apportionment of Generation and Power purchase				
2.1	Apportionment of hydel generation[1]	MU	244.92	-	244.92
2.2	Apportionment of net thermal generation and power purchase[2&3] (Table 3.3, Sr. No. 5.0)	MU	731.34	13.48	744.81
2.3	Apportionment of generation and power purchase (2.2 + 2.3)	MU	976.26	13.48	989.74
3	Apportionment of change in variable cost of generation and power purchase (Table 6.2, Sr. No. 5.0) in proportion of 2.2 above	Rs Crore	6,010.70	110.76	6,121.46

Table 6.6
Title Adjustment for Over-Recovery/Under-Recovery (B)

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
			Sep-06
1.0	Adjustment for over-recovery/under-recovery ('B')		
1.1	Incremental cost allowed to be recoverd in Month j-4	Rs Lakh	1,925.62
1.2	Incremental cost in Month j-4 actually recovered in month j-2	Rs Lakh	2,154.97
1.3	over-recovery/under-recovery (1.2-1.1)	Rs Lakh	(229.35)
2.0	Carried forward adjustment for over-recovery/under-recovery attributable to application of ceiling limit	Rs Lakh	27,036.76
3.0	Adjustment factor for over-recovery/under-recovery (1.5+2.0+2.01)	Rs Lakh	26,807.41

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

Sr. No.	Parameter	Unit	
(A)	(B)	(C)	
			Sep-06
1.0	Calculation of FAC (A)		
1.1	Disallowance of change in variable cost of generation corresponding to excess auxiliary consumption	Rs Lakh	34.20
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 conumption	Rs Lakh	6,087.26
1.3	Apportionment of change in variable cost of generation and power purchase to License Area (C)	Rs Lakh	5,977.12
1.4	Working Capital Interest (I)	Rs Lakh	-
1.5	Adjustment for Over Recovery/Under Recovery (B)	Rs Lakh	26,807.41
1.6	FAC (A) = C + I + B	Rs Lakh	32,784.53
2.0	Calculation of FAC_{kWh}		
2.1	Sale within License Area	MU	965.32
2.2	Excess T&D Loss	MU	-
2.3	FAC Charge (FAC_{kWh}) without considering cap on monthly FAC Charge	Paise/kWh	339.62
2.4	Cap on monthly FAC Charge	Paise/kWh	21.00
2.5	FAC Charge (FAC_{kWh}) considering cap on monthly FAC Charge	Paise/kWh	21.00
3.0	FAC (A)		
3.1	FAC (A) considering cap on Monthly FAC Charge (Est)	Rs Lakh	2,027.17
3.2	FAC (A) disallowed corresponding to excess T&D loss (Est)	Rs Lakh	-
3.3	Carried forward FAC (A) for recovery during future period (Est)	Rs Lakh	30,757.35