

Table 1.1								
Title Energy Sales - Metered								
Sr. No.	Consumer Category	Unit	ORDER FY 12-13	Sep-13			Cumulative upto Month & Year	
				Order	Order	Actual	Reasons for material variation	Order
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
1.0	Energy Sales in License Area ¹							
	LT - Categories							
	LT I - Domestic							
	BPL Consumers	MU	217.00	18.08	12.36		108.50	66.17
	Other Domestic Consumers	MU	14,932.00	1,244.33	1387.73		7,466.00	8,757.13
	LT II - Commercial	MU	3,958.00	329.83	322.99		1,979.00	2,064.87
	LT III - Water Works	MU	539.00	44.92	49.08		269.50	286.76
	LT IV - Agriculture	MU	10,660.00	888.33	398.83		5,330.00	4,390.51
	LT V - Industrial & Power Loom	MU	5,347.00	445.58	650.42		2,673.50	3,766.51
	Bhivandi Franchisee	MU	-	-	-		-	-
	LT VI - Streetlight	MU						
	Grampanchayat & Municipal Council	MU	831.00	69.25	106.13		415.50	610.26
	Municipal Corporation Areas			-			-	-
	LT VII - Temporary	MU						
	Temporary Connections (Religious)	MU	68.00	5.67	1.79		34.00	11.47
	Temporary Connections (Other Purpose)	MU		-			-	-
	LT VIII - Advt & Hoardings	MU	4.00	0.33	0.24		2.00	1.53
	LTIX - Crematoriums	MU	2	0.17	0.12		1.00	0.68
	LTX - Public Services	MU	0	-	7.68		0.00	39.25
	HT - Categories							
	HT I - Industries							
	Continuous	MU	18,554.20	1,546.18	938.86		14,143.20	11,800.72
	Non-Continuous		9,732.20	811.02	934.53			
	Seasonal Industry	MU	148.20	12.35	2.18		74.10	27.85
	HT II - Commercial	MU	2,140.20	178.35	162.68		1,070.10	994.14
	HT III - Railways	MU	1,460.20	121.68	122.72		730.10	745.56
	HT IV - Water Works	MU						
	Express Feeders	MU	969.20	80.77	106.78		484.60	677.81
	Non-Express Feeders		219.20	18.27	17.46		109.60	107.03
	HT V - Agriculture (Includes Poultry)	MU	714.60	59.55	84.04		357.30	439.04
	HT VI - Bulk Supply	MU						
	Residential (Group Housing)		328.20	27.35	18.74		164.10	121.06
	Commercial Complex		-	-	-		-	-
	HT IX Pub Service	MU			65.02		-	372.59
	Others	MU			374.028		-	1,276.88
	Subtotal	MU	70,824.20	5,902.02	5,762.52		35,412.10	37,356.73
2.0	Energy Sales outside License Area excluding Energy Sales reported at (3)							
4.0	Total Energy Sales (1.0 + 2.0 + 3.0)	MU	70,824.20	5,902.02	5,762.52		35,412.10	37,356.73
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	70,824.20	5,902.02	5,762.52		35,412.10	37,356.73



FAC COMPUTATION FOR SEPT 2013

GROUP 1

ENERGY BALANCE

MSEDCL

Table 1.2
 Title Energy Sales - UnMetered

Sr. No.	Consumer Category ¹	ORDER FY 12-13			Sep-13				Cumulative upto Month & Year	
		Load	Norm ²	EC _{UM} ³	Order	Load	EC _{UM} ³	Reasons for material variation	Order	EC _{UM} ³
		HP	hrs/ HP/ Year *	MU	MU	HP	MU		MU	MU
1.0	Unmetered Hrs>1318		1,734.33	4454	371		292.98		2227	2486
	Bhandup (U)		1,474.00	0	0		0.00000		0	0
	Nasik		1,521.00	3015	251		100.61		1508	839
	Pune		2,208.00	1439	120		-1.77		720	103
	Jalgaon				0		71.68		0	700
	Baramati				0		122.46		0	843
1.1	Unmetered Hrs<1318		980.00	6226	519		198.29		3113	1613
	Amravati		922.00	576	48		6.92		288	260
	Aurangabad		1,224.00	1344	112		81.31		672	306
	Kalyan		1,300.00	36	3		0.01		18	0
	Konkan		533.00	0	0		0.00		0	0
	Kolhapur		1,198.00	2156	180		7.49		1078	114
	Latur		1,241.00	1864	155		72.06		932	567
	Nagpur (U)		644.00	81	7		0.87		40	11
	Nagpur		778.00	170	14		0.001		85	0
	Nanded				0		29.62		0	354
1.2	LT-Unmetered PWW			0	0				0	0
	Total		0	2,714.33	10680	890.03		491.269	5340	4099

Table 1.3		Energy Availability						
Sr. No.	Source of Generation/Power Purchase	Unit	FY 2013-14	Sep-13			Cumulative upto Month & Year	
				Order	Actual	Reasons for material variation	Order	Actual
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
Prakashgad, Bandra (E), Mumbai.

FAC for SEPT 2013

Table 1.3 Title Energy Availability								
Sr. No.	Source of Generation/Power Purchase	Unit	FY 2013-14	Sep-13			Cumulative upto Month & Year	
				Order	Order	Actual	Reasons for material variation	Order
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
0.9	MSPGCL	MU						
5311.6	Khaparkheda	MU	4,751.18	395.93	323.37945		2,375.59	1,909.63
2625.5	Bhusawal	MU	2,348.47	195.71	139.39435		1,174.24	889.56
3894.1	Nasik	MU	3,483.22	290.27	308.33410		1,741.61	1,799.85
3915.3	Parli	MU	3,502.17	291.85	105.66659		1,751.09	109.42
3875.3	Koradi	MU	3,466.40	288.87	88.04826		1,733.20	957.09
14937.6	Chandrapur	MU	13,361.57	1,113.46	702.20392		6,680.78	4,773.85
1594.3	Paras 3	MU	1,426.11	118.84	116.17100		713.05	745.20
1594.3	parli 6	MU	1,426.11	118.84	118.08205		713.05	245.67
1594.3	Parli -7	MU	1,426.11	118.84	116.75200		713.05	284.31
1594.3	Paras -4	MU	1,426.11	118.84	115.04824		713.05	752.77
1909.9	KPKD 5	MU	1,909.86	159.16	-		954.93	942.98
797.2	bhusawal 4		797.16	66.43	173.67297		398.58	923.42
4596.4	Gas Thermal	MU	4,111.40	342.62	310.89791		2,055.70	1,840.41
	Gas Thermal (RLNG)	MU	-	-	-		-	-
3430.3	Hydel Stations	MU	3,430.30	285.86	376.59386		1,715.15	1,960.20
	Subtotal	MU	46,866.17	3,905.51	2,994.24469		23,433.08	18,134.35

Table 1.3 Title Energy Availability								
Sr. No.	Source of Generation/Power Purchase	Unit	FY 2013-14	Sep-13			Cumulative upto Month & Year	
				Order	Actual	Reasons for material variation	Order	Actual
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
2.0	Net Power Purchase ²	MU						
	Central Gen Stns		34,777.82	2,942.60	2,520.56		17,388.91	16,125.90
	Korba	MU	5,400.00	450.00	458.37		2,700.00	2,564.75
	Korba III	MU	686.78	57.23	90.98		343.39	472.92
	Vindhyanchal - I	MU	3,516.00	293.00	243.72		1,758.00	1,657.55
	Vindhyanchal - II	MU	2,940.00	245.00	219.51		1,470.00	1,377.09
	Vindhyanchal-III	MU	2,400.00	200.00	176.48		1,200.00	1,177.36
	Vindhyanchal-IV	MU	381.00	76.20	107.33		190.50	551.32
	Kawas - APM	MU	1,080.00	90.00	63.14		540.00	320.36
	Gandhar - APM	MU	1,020.00	85.00	35.25		510.00	307.68
	Farrakka	MU	-	-	-		-	-
	Talcher	MU	-	-	-		-	-
	Kahalgaon	MU	-	-	-		-	-
	Kahalgaon II unit	MU	720.00	60.00	36.04		360.00	298.69
	Sipat Stage II - Unit 1	MU	4,982.71	415.23	284.868		2,491.36	1,855.39
	Sipat Stage II - Unit 2	MU			186.093		-	984.73
	Mouda	MU			10.145		-	23.83
	Kakrapar	MU	760.40	63.37	97.75		380.20	581.23
	Tarapur 1 & 2	MU	1,280.00	106.67	105.75		640.00	418.91
	Tarapur 3 & 4	MU	3,292.93	274.41	171.63		1,646.47	1,261.15
	RGPLL -	MU	5,256.00	438.00	-		2,628.00	1,292.52
	Sardar Sarovar	MU	990.00	82.50	213.33		495.00	920.74
	Pench	MU	72.00	6.00	20.17		36.00	59.71
	HYDRO PLANT		131.00	10.92	9.17		65.50	45.97
	Dodson - I	MU	42.00	3.50	5.498		21.00	19.17
	Dodson - II	MU	89.00	7.42	3.668		44.50	26.80
	Renewables	MU	8,643.30	720.28	460.45		4,321.65	4,243.44
	Other Hydro	MU	194	16.13	20.143		96.75	102.32
	Wind Purchase & Bio mass Bagqase	MU	7,259	604.90	321.235		3,629.40	3,271.95
	CPP	MU	900.00	75.00	99.07		450.00	777.03
	Solar	MU	271.50	22.63	20.004		135.75	92.13
	MSW	MU	19.50	1.63	-		9.75	-
	Other Purchases	MU	4,687.75	712.05	1,326.97		2,343.88	7,065.21
	IPP JSW	MU	1,934.21	161.18	187.93		967.10	1,004.07
	Mandira UMPP CGPL	MU	1,610.96	170.00	366.38		805.48	2,380.69
	Adani Power	MU	1,142.59	380.86	772.67		571.29	3,680.46
	INDIABULL	MU					-	-
	Traders	MU	10,675.00	889.58	450.21		5,337.50	1,983.84
	LANCO/NESTCL	MU		-	-		-	-
	NVVN	MU		-	-		-	-
	JPL	MU		-	-		-	-
	TPTCL	MU		-	-		-	-
	WBSEDCL	MU		-	-		-	-
	RETL	MU		-	-		-	-
	LEX power	MU		-	90.63		-	341.06
	PTC	MU		-	-		-	-

Table 1.3		Energy Availability						
Sr. No.	Source of Generation/Power Purchase	Unit	FY 2013-14	Sep-13			Cumulative upto Month & Year	
			Order	Order	Actual	Reasons for material variation	Order	Actual
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
	SHREE CEMENT	MU		-	-		-	-
	RPG PTCL	MU		-	-		-	-
	isw ptcl	MU		-	-		-	791.56
	INSTINCT INFRA	MU		-	-		-	-
	Adani infirm	MU		-	-		-	-
	GMR	MU		-	-		-	-
	Indrajeet power	MU		-	-		-	22.04
	IDEAL Energy	MU		-	-		-	22.88
	India Bull	MU			157.00		-	335.05
	Wardha Power	MU					-	-
	M/S KNOWLEDGE INFRA	MU					-	-
	MAHAGENCO INFIRM POWER	MU			146.15		-	399.61
	Suryalaxmi	MU					-	13.49
	Adani	MU					-	-
	abhijit	MU					-	-
	Gupta Enrgy	MU					-	-
	PXIL	MU			56.43		-	58.15
	Inter state (grid) Losses	MU	(1,309.00)	(109.08)	(109.08)		(654.50)	(654.50)
	Unscheduled Interchange (UI)	MU	-	-	3.10		-	(62.99)
	Subtotal	MU	104,472.04	9,071.85	7,655.63		52,236.02	46,881.22
3.0	Energy Available	MU						
3.2	Net Generation + Net Power Purchase (1.6+2.0)	MU	104,472.04	9,071.85	7,764.71	Inter state (Grid)losses 109.083333333333	76,224.11	47,535.72
3.3	Net Energy Available at transmission voltage	MU	108,537.00	9,044.75	7784.95		54,268.50	47,673.18
3.4	Net Energy Available at distribution voltage	MU	103935	8,661.25	7658.13		51,967.52	47,328.27

Table 1.4
Title T&D Loss

Sr. No.	Parameter	Unit	FY 2013-14	Sep-13		Cumulative upto Month & Year	
				Order	Actual	Order	Actual
(A)	(B)	(C)	(D)	(E)	(F)	(I)	(J)
1.0	Transmission and Stepdown Loss¹						
1.1	Net Energy Input at transmission voltages (Net Generation + Net Purchase) *	MU	108,537.00	9,044.75	7785	54,268.50	47673
1.2	Energy Sales at transmission voltages	MU	-	-	0	-	0
1.3	Energy fed to Distribution System	MU	103935	8661	7658	51,967.52	47343
1.4	Transmission and Stepdown Loss (1.1 - 1.2 - 1.3)	MU	4602	383	127	2300.98	329.74
1.5	Transmission and Stepdown Loss as % of Net Energy Input (1.4 / 1.1)	%	4.24%	4.24%	1.63%	4.24%	0.69%
2.0	Distribution Loss¹						
2.1	Net Energy Input (input from Transmission System + net energy input at distribution voltages)	MU	104,442.03	8,703.50	7658.13	52,221.02	47330
2.2	Energy Sales (Metered) at distribution voltages	MU	77291	6441	5762.52	38,645.32	37314
2.3	Estimated Consumption for Unmetered Categories	MU	10680	890	491.27	5,340.18	4099
2.4	Distribution Loss (2.1 - 2.2 - 2.3)	MU	16471	1373	1404.34	8,235.52	5917.88
2.5	Distribution Loss as % of net energy input (2.4 / 2.1)	%	15.77%	15.77%	18.34%	15.77%	12.50%
3.0	Transmission and Distribution (T&D) Loss						
3.1	Net Energy Input (i.e. Net Generation + Net Power Purchase)	MU	108,537.00	9,044.75	7784.95	54,268.50	47673
3.2	Energy Sales (Metered + Unmetered) (1.2+2.2+2.3)	MU	87971.00	7,330.92	6253.79	43,985.50	41412
3.3	T&D Loss (3.1 - 3.2)	MU	20566.00	1,713.83	1531.16	10,283.00	6260.76
3.4	T&D Loss as % of Net Energy Input (3.3 / 3.1)	%	18.95%	18.95%	19.67%	18.95%	13.13%
4.0	Excess T&D Loss = T&D Loss (3.3) - T&Dapp x Net Energy Input (3.1)	MU			0		

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	2.48
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	2.32
3.0	Change in variable cost of generation and power purchase (2.0-1.0)	Rs/kWh	(0.15)
4.0	Generation ¹ + Net Power Purchase (Table No.6.1 Sr. No.4.0, Col. No. (L))	MU	7,279.03
5.0	Change in variable cost of generation and power purchase (3.0 x 4.0)	Rs Lakh	(11,247.48)

Notes:

- 1 - Please report generation and variable cost based on Gross generation if the Tariff Order has approved the variable cost with reference to Gross generation.
- Please report generation and variable cost based on net generation if the Tariff Order has approved the variable cost with reference to net generation.

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

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
1.0	Adjustment for over-recovery/under-recovery ('B')		
1.1	Incremental cost allowed to be recovered in Month (Sept 13)	Rs Lakh	(1,844.05)
	Incremental cost in Month j-4 actually recovered in month j-2 (JUN-13)	Rs Lakh	8,126
1.3	under recovery /over recovery	Rs Lakh	(9,969.92)
2.0	C/F DUE TO FORMULA ERROR for regular FAC for Aug 13	Rs Lakh	(427.90)
2.1	FBSM and Loss impact of Aug 13	Rs Lakh	-385.78
3.0	Adjustment factor for over-recovery/under-recovery	Rs Lakh	(813.68)
Over/under recovery is charged catagorywise and slabwise in 8.3 statement so it is not considered here in calculating FAC p/u			

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. for SEPT 2013
Prakashgad, Bandra (E), Mumbai.

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	(11,247.48)
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	(813.68)
4.0	T & D Loss Adjustment for the year (Table 5.1, Sr.No.8.0)	Rs Lakh	-
5.0	FAC (A) = C + I + B (1.0 + 2.0 + 3.0)	Rs Lakh	(12,061.16)
6.0	Any unpredictable and uncontrollable expenses incurred (Z) ¹	Rs Lakh	
7.0	FOCA (A) = C + I + B + Z (4.0 + 5.0)	Rs Lakh	(12,061.16)

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. FAC for SEPT 2013
Prakashgad, Bandra (E), Mumbai.

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	5,664.07
2.0	Estimated Consumption within License Area (Table 1.2)	MU	491.27
3.0	Excess T&D Loss (Table 1.4, Sr. No. 4.0)	MU	-
4.0	Total FAC (Table 6.7, Sr. No. 5.0) or Total FOCA (Table 6.7, Sr. No. 7.0)	Rs Lakh	(12,061.16)
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	(19.59)
6.0	Cap on monthly FAC/FOCA Charge	Rs/kWh	N.A.
6.1	Cap at 10% of the variable component of tariff ²	Paise/kWh	N.A.
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	(0.195946)

* Metered sales is reduced by HT-Credit (Wheeling) 98.458101 Mus

- 1 As per Regulation 82.6 of Maharashtra Electricity Regulatory Commission Regulations 2005(Tariff Regulations),the monthly cap on FAC Charge is taken as 20% of variable component of tariff of that tariff category/sub-category/consumption slab.
- 2 Round off FAC/FOCA Charge to 1 decimal
- 3 Variable component of tariff = Total estimated revenue from energy charges in the Tariff Order / Total energy sales projected in Tariff Order

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. FAC for SEPT 2013
Prakashgad, Bandra (E), Mumbai.

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	(11,247.48)
1.4	Working Capital Interest (I)	Rs Lakh	-
1.5	T & D Loss Adjustment for the year		-
1.6	Adjustment for Over Recovery/Under Recovery (B)	Rs Lakh	(813.68)
1.7	FAC (A) = C + I + B	Rs Lakh	(12,061.16)
2.0	Calculation of FAC_{kWh}		
2.1	Sale within License Area	MU	6,155.33
2.2	Excess T&D Loss	MU	-
2.3	FAC Charge (FAC _{kWh}) without considering cap on monthly FAC Charge	Paise/kWh	(19.59)
2.4	Cap on monthly FAC Charge	Paise/kWh	71.07
2.5	FAC Charge (FAC_{kWh}) considering cap on monthly FAC Charge	Rs/kWh	0.7107
3.0	FAC (A)		
3.1	FAC (A) considering cap on Monthly FAC Charge	Rs Lakh	43,748.37
3.2	FAC (A) disallowed corresponding to excess T&D loss	Rs Lakh	-
3.3	FAC (A) charged as per 8.3 categorywise and slabwise 1	Rs Lakh	(11,423.61)
3.4	C/f from Previous month 2.	Rs Lakh	-
3.5	Under/over recovery from 6.6 statement 3.	Rs Lakh	(9,969.92)
3.6	Total FAC to be charged in current month 4=(1+2+3)	Rs Lakh	(21,393.52)
3.7	Actual FAC charged in current month categorywise and slabwise 5.	Rs Lakh	(26,759.30)
3.8	Carried forward FAC (A) for recovery during future period (4-5)	Rs Lakh	0.00

Note:

- 1 As per Regulation 82.6 of Maharashtra Electricity Regulatory Commission Regulations 2005(Tariff Regulations),the monthly cap on FAC Charge is taken as 20% of variable component of tariff of that tariff category/sub-category/consumption slab.
- 2 The amount to be carried forward for recovery during future period is shown in the categorywise and slabwise computation of FAC vide Table 8.3
- 3 Total FAC to be charged in the current month is not tallied with actual FAC charged in the current month and C/F for the future period is only because of Un metered tariff is billed quarterly and its over/under recovery and C/f to future period is calculated quarterly

