

Title Form 1: Energy Sales - Metered							
Sr. No.	Consumer Category	Unit	ORDER FY 15-16	Jul-16		Cumulative upto Month & Year	
			Order	Order	Actual	Order	Actual
(A)	(B)	(C)	(D)	(E)	(F)	(H)	(I)
1.00	Energy Sales in License Area1						
	LT - Categories						
	LT I - Domestic						
	BPL Consumers	MU	113.00	9.42	4.84	37.67	19.19
	Other Domestic Consumers	MU	18,019.00	1,501.58	1,702.99	6,006.33	7,481.97
	LT II - Commercial	MU	4,011.00	334.25	380.18	1,337.00	1,670.27
	LT III - Pub Water Works	MU	661.00	55.08	53.25	220.33	228.90
	LT IV - Agriculture	MU	13,461.00	1,121.75	1,118.31	4,487.00	5,079.70
	LT V - Industrial & Power Loom	MU	6,286.00	523.83	704.11	2,095.33	2,869.00
	Bhivandi Franchisee	MU	-	-	-	-	-
	LT VI - Streetlight	MU	-	-	-	-	-
	Grampanchayat & Municipal Council	MU	1,222.00	101.83		407.33	587.73
	Municipal Corporation Areas	MU	411.00	34.25	143.58	137.00	-
	LT VII - Temporary	MU	-	-	-	-	-
	Temporary Connections (Religious)	MU	2.00	0.17		0.67	4.91
	Temporary Connections (Other Purpose)	MU	16.00	1.33	1.02	5.33	-
	LT VIII - Advt & Hoardings	MU	3.00	0.25	0.304085	1.00	1.30
	LT IX - Crematoriums	MU	2.00	0.17	0.16	0.67	0.60
	LTX - Public Services	MU	-	-	-	0.00	0.00
	A Government						
	I <20 kw						
	0-200 units	MU	5.00	0.42	0.74	1.67	2.92
	> 200 units	MU	7.00	0.58	1.27	2.33	5.10
	II >20 -50 kw	MU	3.00	0.25	0.61	1.00	2.24
	III >50 kw	MU	3.00	0.25	0.47	1.00	1.90
	B others					0.00	0.00
	I <20 kw					0.00	0.00
	0-200 units	MU	41.00	3.42	5.52	13.67	21.71
	> 200 units	MU	64.00	5.33	11.47	21.33	47.41
	II >20 -50 kw	MU	27.00	2.25	5.09	9.00	21.50
	III >50 kw	MU	29.00	2.42	5.21	9.67	22.65
	Prepaid	MU	14.00	1.17	0.99	4.67	4.85
	LT Total A		44,400.00	3,700.00	4,140.10	14,800.00	18,073.84
	HT - Categories						
	HT I - Industries						
	Continuous	MU	13,167.00	1,097.25	687.42	8,732.33	7,404.68
	Non-Continuous		13,030.00	1,085.83	1,077.88		
	Seasonal Industry	MU	166.00	13.83	1.61	55.33	13.84
	HT II - Commercial	MU	2,206.00	183.83	167.25	735.33	749.64
	HT III - Railways	MU	1,505.00	125.42	0.37	501.67	3.39
	HT IV - Water Works	MU	-	-	-	-	-
	Express Feeders	MU	1,154.00	96.17	120.57	384.67	448.20
	Non-Express Feeders		239.00	19.92	19.36	79.67	74.99
	HT V - Agriculture (Includes Poultry)	MU	871.00	72.58	20.99	290.33	336.54
	HT VI - Bulk Supply						
	Residential (Group Housing)	MU	217.00	18.08	18.87	72.33	83.90
	HT VIII-B Temporary supply others	MU	4.00	0.33	0.24	1.33	0.96
	HT IX Pub Service	MU	-	-	-	-	-
	A Government						
	Express Feeders	MU	23.00	1.92	9.62	7.67	42.02
	Non-Express Feeders	MU	21.00	1.75	5.82	7.00	26.08
	B Others						
	Express Feeders	MU	437.00	36.42	26.95	145.67	119.52
	Non-Express Feeders	MU	402.00	33.50	30.70	134.00	133.37
	HT X Port	MU	86.00	7.17	5.55	28.67	25.70
	HT X Metro/ Mono	MU	-	-	-	-	-
	MSPGCL Aux supply	MU	56.00	4.67	15.33	18.67	38.36
	Other	MU	-	-	797.91	-	3,097.35
	HT Total B	MU	33,584.00	2,798.67	3,006.44	11,194.67	12,598.55
	Total Sale (LT+HT)	MU	77,984.00	6,498.67	7,146.54	25,994.67	30,672.39

Note:-

1. PD Consumers are not considered.

Table 1.2
Title Energy Sales - UnMetered

Form 2: Energy Sales - Unmetered

Sr. No.	Consumer Category ¹	ORDER FY 15-16			Jul-16				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	5130	428		463.51		1710	2120
	Bhandup (U)		1,474.00				0.00000		0	0
	Nasik		1,521.00				155.44		0	737
	Pune		2,208.00				23.84		0	102
	Jalgaon						144.24		0	616
	Baramati						139.99		0	664
1.1	Unmetered Hrs<1318		980.00	3852	321		326.55		1284	1528
	Akola						27.28			
	Amravati		922.00	484			41.99		0	290
	Aurangabad		1,224.00	1130			71.24		0	335
	Kalyan		1,300.00	30			0.02		0	0
	Konkan		533.00	0			0.00		0	0
	Kolhapur		1,198.00	1814			18.47		0	79
	Latur		1,241.00	1567			92.20		0	436
	Nagpur (U)		644.00	68			1.88		0	11
	Nagpur		778.00	141			0.000		0	0
	Chandrapur						0.000			
	Gondia						0.000			
	Nanded						73.47		0	322
1.2	LT-Unmetered PWW								0	0
	Total	0	2,714.33	8982	748.50		790.06		2994	3648

* Norms have been considered same of MYT order for Unmetered Hrs > & < 1318 HP/year

Form 3: Energy Availability								
Sr. No.	Source of Generation/Power Purchase	Unit	ORDER FY 15-16	Jul-16			Cumulative upto Month & Year	
			Order	Order	Actual	Reasons for material variation	Order	Actual
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
	MSPGCL	MU						
	Koradi 10	MU	1,481.00	123.42			123.42	-
	Koradi 9	MU	1,781.00	148.42			148.42	-
	Koradi 8	MU	2,962.00	246.83	313.32		246.83	972.95
	Chandrapur 8	MU	2,170.00	180.83	149.45		180.83	185.18
	Chandrapur 9	MU	1,562.00	130.17			130.17	-
	Paras 3 and 4	MU	3,125.00	260.42	277.28		260.42	1,170.74
	khaperkheda	MU	5,330.00	444.17	54.55		444.17	1,311.34
	parli 8	MU	451.00	37.58			37.58	-
	khaperkheda 5	MU	3,072.00	256.00	311.89		256.00	993.58
	Chandrapur	MU	11,562.00	963.50	861.48		963.50	3,656.52
3430.3	Hydel Stations	MU	4,612.00	384.33	224.51		384.33	1,016.10
	Subtotal	MU	38,108.00	3,175.67	2,192.47		3,175.67	9,306.40
2.0	Net Power Purchase ²	MU						
	Central Gen Stns		29,696.00	2,474.67	2,107.58		2,474.67	10,482.66
	Korba	MU	4,661.00	388.42	301.47		388.42	1,566.83
	Korba III	MU	936.00	78.00	83.62		78.00	356.75
	Vindhyanchal - I	MU	3,268.00	272.33	196.80		272.33	926.22
	Vindhyanchal - II	MU	2,548.00	212.33	98.21		212.33	741.15
	Vindhyanchal-III	MU	2,123.00	176.82	152.38		176.82	741.41
	Vindhyanchal-IV	MU	2,292.00	191.00	167.67		191.00	794.48
	Vindhyanchal-V	MU	557.00	46.42	83.67		46.42	433.87
	Kawas - APM	MU	-	-	11.29		-	173.86
	Gandhar - APM	MU	-	-	38.44		-	226.52
	Farrakka	MU	-	-	-		-	-
	Talcher	MU	-	-	-		-	-
	Kahalgaon	MU	-	-	-		-	-
	Kahalgaon II unit	MU	-	-	45.22		-	302.72
	Sipat - Unit 1	MU	4,363.00	363.58	282.72		363.58	1,497.45
	Sipat Unit 2	MU	2,068.00	172.33	187.49		172.33	782.96
	Mouda	MU	-	-	10.251		-	621.50
	Kakrapar	MU	1,050.00	87.50	-		87.50	-
	Tarapur 1 & 2	MU	1,200.00	100.00	49.42		100.00	188.26
	Tarapur 3 & 4	MU	3,300.00	275.00	271.85		275.00	943.77
	RGPL	MU	-	-	-		-	-
	Sardar Sarovar	MU	1,200.00	100.00	121.78		100.00	172.73
	Pench	MU	130.00	10.83	5.30		10.83	12.19
	HYDRO PLANT		120.00	10.00	9.82		10.00	14.63
	Dodson - I	MU	56.00	4.67	3.454		4.67	3.45
	Dodson - II	MU	64.00	5.33	6.362		5.33	11.18
	Renewables	MU	13,195.00	1,099.58	1,088.96		1,099.58	3,779.55
	CPP	MU	1,977.00	164.75	44.77		164.75	261.38
	Wind Purchase & Bio mass Banqase	MU	-	-	1017.676		934.83	3,353.37
	Solar	MU	11,218.00	934.83	12.764		-	127.87
	MSW	MU	-	-	0.005		-	0.01
	Other Hydro	MU	-	-	13.74		-	36.93
	Other Purchases	MU	30,491.00	2,540.92	2,061.54		2,540.92	8,064.81
	IPP JSW	MU	1,913.00	159.42	197.38		159.42	734.80
	Mundra UMPP CGPI	MU	5,158.00	429.83	307.65		429.83	1,340.81
	Adani Power 1320	MU	8,511.00	709.25	842.13		709.25	1,806.50
	Adani Power 1200	MU	8,220.00	685.00	514.16		685.00	2,254.53
	Adani Power 125	MU	-	-	53.56		-	234.85
	Emco Energy	MU	1,370.00	114.17	143.46		114.17	412.70
	INDIABULL/RattanIndia	MU	5,319.00	443.25	3.19		443.25	1,280.63
	Traders	MU	-	-	494.25		-	4,700.37
	IEX power	MU	-	-	-		-	25.62
	Sai Wardha Power	MU	-	-	-		-	-
	MSPGCL Infirm	MU	-	-	-		-	-
	PXIL	MU	-	-	-		-	1.45
	bhusawal		-	-	24.23		-	505.98
	koradi		-	-	-		-	238.40
	nashik		-	-	229.84		-	1,168.24
	Parli		-	-	0		-	-
	uran		-	-	228.85		-	1,051.97
	parli 6 7		-	-	-		-	-
	Bhusawal unit 4&5		-	-	11.329		-	1,708.72
	Inter state (grid)	MU	(1,152.00)	(96.00)	(96.00)		(96.00)	(384.00)
	Losses		-	-	-		-	-
	Unscheduled Interchange (UI)	MU	-	-	-		-	-
	Subtotal	MU	110,458.00	9,204.83	7,858.62		9,204.83	35,964.42
3.0	Energy Available	MU						
3.2	Net Generation + Net Power Purchase (1.6+2.0)	MU	110,458.00	9,204.83	7,954.62	Inter state (Grid) losses 96.00	9,204.83	36,348.42
3.3	Net Energy Available at transmission voltage	MU	110,458.00	9,204.83	7,954.62		9,204.83	36,348.42
3.4	Net Energy Available at distribution voltage	MU	106161	8,846.75	8,122.23		8,846.75	37,425.00
Note: 1. All the parameters and power purchase has been considered as per MYT order for FY2015-16 of MSSEDCL dt 26.6.15								
2. Power purchase have been considerd as per Audited Power Purchsed statement								
3. order figure for interstate loss is taken, since the relevant data was not received so far.								

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. FAC For JULY 2016
Prakashgad, Bandra (E), Mumbai.

Title Form 4: Losses

Sr. No.	Parameter	Unit	ORDER FY 15-16 Order	Jul-16		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	110,458.00	9,204.83	7955	36,819.33	36348
1.2	Energy Sales at transmission voltages	MU	-	-	0	-	0
1.3	Energy fed to Distribution System	MU	106161	8847	8122	35,387.00	37425
1.4	Transmission and Stepdown Loss (1.1 - 1.2 - 1.3)	MU	4297	358	-168	1432.33	-1076.58
1.5	Transmission and Stepdown Loss as % of Net Energy Input (1.4 / 1.1)	%	3.89 %	3.89 %	-2.11 %	3.89 %	-2.96 %
2.0	Distribution Loss¹						
2.1	Net Energy Input (input from Transmission System + net energy input at distribution voltages)	MU	106,608.00	8,884.00	8122.23	35,536.00	37442
2.2	Energy Sales (Metered) at distribution voltages	MU	83234	6936	7146.54	27,744.67	30086.98
2.3	Estimated Consumption for Unmetered Categories	MU	8982	749	790.06	2,994.00	3160.25
2.4	Distribution Loss (2.1 - 2.2 - 2.3)	MU	14392	1199	185.63	4,797.33	4,194.58
2.5	Distribution Loss as % of net energy input (2.4 / 2.1)	%	13.50 %	13.50 %	2.29 %	13.50 %	11.20 %
3.0	Transmission and Distribution (T&D) Loss						
3.1	Net Energy Input (i.e. Net Generation + Net Power Purchase)	MU	110,458.00	9,204.83	7954.62	36,819.33	36348
3.2	Energy Sales (Metered + Unmetered) (1.2+2.2+2.3)	MU	92216.00	7,684.67	7936.60	30,738.67	33247
3.3	T&D Loss (3.1 - 3.2)	MU	18242.00	1,520.17	18.01	6,080.67	3101.19
3.4	T&D Loss as % of Net Energy Input (3.3 / 3.1)	%	16.51 %	16.51 %	0.23 %	16.51 %	8.53 %
4.0	Excess T&D Loss = T&D Loss (3.3) - T&Dapp x Net Energy Input (3.1)	MU			0		

Note: Excess T&D loss computed on cumulative distribution loss only.

Title Form 5: Power Purchase Cost										
Sr. No.	Power Purchase Source2	ORDER FY 15-16			Order for Month & Year			Jul-16		
		Net Purchase3	Var. Cost5	Var. Cost Amt4	Net Purchase3	Var. Cost5	Var. Cost Amt4	Net Purchase	Tariff 6	PP Amt7
		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) = (I)*(J)
	MSPGCL									
	Koradi 10	1,481.00	1.25	18,512.50	123.42	1.25	1,542.71	-		-
	Koradi 9	1,781.00	1.25	22,262.50	148.42	1.25	1,855.21	-		-
	Koradi 8	2,962.00	1.25	37,025.00	246.83	1.25	3,085.42	313.32	2.38	7,450.68
	Chandrapur 8	2,170.00	1.26	27,342.00	180.83	1.26	2,278.50	149.45	2.34	3,497.01
	Chandrapur 9	1,562.00	1.26	19,681.20	130.17	1.26	1,640.10	-		-
	Paras 3 and 4	3,125.00	1.87	58,574.38	260.42	1.87	4,881.20	277.28	2.37	6,579.79
	khaperkheda	5,330.00	2.17	115,519.17	444.17	2.17	9,626.60	54.55	2.46	1,341.29
	parli 8	451.00	2.27	10,237.70	37.58	2.27	853.14	-		-
	khaperkheda 5	3,072.00	2.23	68,566.49	256.00	2.23	5,713.87	311.89	2.30	7,170.29
	Chandrapur	11,562.00	2.47	285,212.57	963.50	2.47	23,767.71	861.48	2.37	20,451.56
	Total MSPGCL	33,496.00	1.98	662,933.50	2,791.33	1.98	55,244.46	1,967.95	2.36	46,490.62
	Central Gen Stns	29,696.00	1.46	432,869.00	2,474.67	1.46	36,072.42	2,047.60	1.75	35,794.85
	Korba	4,661.00	1.13	52,669.30	388.42	1.13	4,389.11	301.47	1.59	4,798.07
	Korba III	936.00	1.12	10,483.20	78.00	1.12	873.60	83.62	1.53	1,277.67
	Vindhyanchal - I	3,268.00	1.62	52,941.60	272.33	1.62	4,411.80	196.80	1.74	3,429.00
	Vindhyanchal - II	2,548.00	1.54	39,239.20	212.33	1.54	3,269.93	98.21	1.59	1,566.25
	Vindhyanchal-III	2,123.00	1.50	31,845.00	176.92	1.50	2,653.75	152.38	1.55	2,361.11
	Vindhyanchal-IV	2,292.00	1.53	35,067.60	191.00	1.53	2,922.30	167.67	1.64	2,742.85
	Vindhyanchal-V	557.00	1.53	8,522.10	46.42	1.53	710.18	83.67	1.56	1,302.55
	Farrakka	-	2.86	-	-	2.86	-	-	-	-
	Talcher	-	2.67	-	-	2.67	-	-	-	-
	Kahalgaon	-	-	-	-	-	-	-	-	-
	Kahalgaon II unit	-	2.69	-	-	2.69	-	45.22	2.44	1,101.86
	Sipat - Unit 1	4,363.00	1.58	-	363.58	-	-	282.72	1.28	3,631.11
	Sipat Unit 2	2,068.00	1.60	33,088.00	172.33	1.60	2,757.33	187.49	1.32	2,474.86
	Kakrapar	1,050.00	2.46	25,830.00	87.50	2.46	2,152.50	-	-	-
	Tarapur 1 & 2	1,200.00	1.04	12,480.00	100.00	1.04	1,040.00	49.42	1.08	532.57
	Tarapur 3 & 4	3,300.00	3.07	101,310.00	275.00	3.07	8,442.50	271.85	2.93	7,971.92
	RGPP	-	-	-	-	-	-	-	-	-
	Sardar Sarovar	1,200.00	2.21	26,520.00	100.00	2.21	2,210.00	121.78	2.05	2,496.45
	Pench	130.00	2.21	2,873.00	10.83	2.21	239.42	5.30	2.05	108.59
	HYDRO PLANT	120.00	2.12	2,543.20	10.00	2.12	211.93	9.82	1.83	179.96
	Dodson - I	56.00	2.45	1,372.00	4.67	2.45	114.33	3.45	1.62	55.90
	Dodson - II	64.00	1.83	1,171.20	5.33	1.83	97.60	6.36	1.95	124.07
	Renewables	13,195.00	5.32	701,388.50	1,099.58	5.32	58,449.04	1,088.96	4.46	48,570.68
	CPP	1,977.00	2.51	49,622.70	164.75	2.51	4,135.23	44.77	1.55	694.09
	Wind Purchase & Bio mass Bagasse	11,218.00	5.81	651,765.80	934.83	5.81	54,313.82	1,017.68	4.47	45,467.76
	Solar	-	-	-	-	-	-	12.76	14.58	1,860.61
	MSW	-	-	-	-	-	-	0.01	4.88	0.26
	Other Hydro	-	-	-	-	-	-	13.74	3.99	547.97
	Other Purchases	30,491.00	1.90	580,035.40	2,540.92	1.90	48,336.28	2,007.98	1.79	35,949.21
	IPP JSW	1,913.00	2.05	39,216.50	159.42	2.05	3,268.04	197.38	1.80	3,559.36
	Mundra UMPP	5,158.00	1.55	79,949.00	429.83	1.55	6,662.42	307.65	1.33	4,098.23
	CGPL	-	-	-	-	-	-	-	-	-
	Adani Power 1320	8,511.00	1.55	131,920.50	709.25	1.55	10,993.38	842.13	1.60	13,481.52
	Adani Power 1200	8,220.00	2.16	177,552.00	685.00	2.16	14,796.00	514.16	2.30	11,848.70
	Emco Energy	1,370.00	1.50	20,550.00	114.17	1.50	1,712.50	143.46	2.00	2,871.77
	INDIABULL/RattanIndia	5,319.00	2.46	130,847.40	443.25	2.46	10,903.95	3.19	2.81	89.63
	NON MOD Sources		4.00			4.00	-	607.79	2.76	16,805.02
	IEEX power	-	-	-	-	-	-	-	-	-
	PXIL	-	-	-	-	-	-	-	-	-
	bhusawal	-	-	-	-	-	-	24.23	2.98	721.18
	koradi	-	-	-	-	-	-	-	-	-
	nashik	-	-	-	-	-	-	229.84	3.68	8,460.30
	Parli	-	-	-	-	-	-	-	-	-
	uran	-	-	-	-	-	-	228.85	2.07	4,737.15
	parli 6 7	-	-	-	-	-	-	-	-	-
	Bhusawal unit 4&5	-	-	-	-	-	-	11.33	2.60	293.98
	Kawas - APM	-	-	-	-	-	-	11.29	2.28	257.99
	Gandhar - APM	-	-	-	-	-	-	38.44	2.20	845.25
	Mouda	-	-	-	-	-	-	10.25	2.49	254.93
	Adani Power 125	-	-	-	-	-	-	53.56	2.30	1,234.24
	Inter state (grid)	-	-	-	-	-	-	(96.00)	-	-
	Losses	-	-	-	-	-	-	-	-	-
	Unscheduled	-	-	-	-	-	-	-	-	-
	Interchange (UI)	-	-	-	-	-	-	-	-	-
	Total Power Purchase	106,998.00	2.22	2,379,769.60	8,916.50	2.22	198,314.13	7,634.10	2.41	183,790.35

Table 6.1
Title Composite variable cost of generation and power purchase

Sr. No.	Parameter	ORDER FY 15-16			Order for Month & Year			Jul-16			Normative Actual ⁴ for Month & Year			Cumulative Actual upto 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	Unit	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	MU	Rs/ kWh	Rs Lakh
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)
3.0	Net Power Purchase (Table No. 4.1)	106,998.00	2.22	2,379,769.60	8,916.50	2.22	198,314.13	7,634.10	2.4075	183,790.35	7,634.10	2.4075	183,790.35	34,948.32	2.50	873,567.45
4.0	Own Generation + Net Power Purchase (1.0-2.0+3.0)	106,998.00	2.22	2,379,769.60	8,916.50	2.224125	198,314.13	7,634.10	2.41	183,790.35	7,634.10	2.40749	183,790.35	34,948.32	2.50	873,567.45

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.

Form 6.2

7

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	2.22
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	2.41
3.0	Change in variable cost of generation and power purchase (2.0-1.0)	Rs/kWh	0.18
4.0	Generation ¹ + Net Power Purchase (Table No.6.1 Sr. No.4.0, Col. No. (L))	MU	7,634.10
5.0	Change in variable cost of generation and power purchase (3.0 x 4.0)	Rs Lakh	13,998.32

FORM 8

Title **Apportionment of change in variable cost of generation and power purchase (C) to License Area**

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			-
2	Apportionment of Generation and Power purchase		NOT APPLICABLE		
2.1	Apportionment of hydel generation ¹	MU			-
2.2	Apportionment of net thermal generation and power purchase ^{2&3} (Table 3.3, Sr. No. 5.0)	MU			-
2.3	Apportionment of generation and power purchase (2.2 + 2.3)	MU			-
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			-

Title Form 9: Adjustment for over-recovery/under-recovery

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 April 16	Rs Lakh	23,901.48
1.2	Incremental cost actually recovered in month July 16	Rs Lakh	25,126.47
1.3	under recovery /over recovery	Rs Lakh	(1,224.99)
1.5	fbsm MPACT FOR July 2015	Rs Lakh	
	Adjustment factor for over-recovery/under-recovery	Rs Lakh	(1,224.99)

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. For JULY 2016
Prakashgad, Bandra (E), Mumbai.

Title **Form 10: Carrying cost for over-recovery/under-recovery**

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
1.0	Adjustment factor for over-recovery/under-recovery (Sr. No. 3 of Form 9)	Rs Lakh	(1,224.99)
2.0	Interest rate	%	14.45%
3.0	Carrying cost for over-recovery/under-recovery	Rs Lakh	(29.50)

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COFACD For JULY 2016
Prakashgad, Bandra (E), Mumbai.

Form 11: Total Fuel Cost and Power Purchase Adjustment

Title Total Fuel Cost and Power Purchase Adjustment

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
1.0	Change in Fuel cost and power purchase cost attributable to Sales within the License Area (F)	Rs Lakh	13,998.32
2.0	Carrying cost for over-recovery/under-recovery (C)	Rs Lakh	(29.50)
3.0	Adjustment factor for over-recovery/under-recovery (B)	Rs Lakh	(1,224.99)
4.0	$Z_{FAC} = F+C+B$	Rs Lakh	12,743.83
5.0	Any unpredictable and uncontrollable expenses incurred (Z) ¹	Rs Lakh	0
6.0	FOCA (A) = C + I + B + Z	Rs Lakh	12,743.83

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. FAC For JULY 2016
Prakashgad, Bandra (E), Mumbai.

Title Calculation of per unit FAC/FOCA Charge

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
1.0	Energy Sales within the License Area	MU	7,040.48
2.0	Estimated Consumption within License Area (Table 1.2)	MU	790.06
3.0	Excess Distribution Loss	MU	-
4.0	Z _{FAC}	Rs Lakh	12,743.83
5.0	Z _{FAC} per kWh	Paise/kWh	16.27
6.0	Cap on monthly FAC/FOCA Charge	Rs/kWh	N.A.
6.1	Cap at 20% 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})	Rs/kWh	0.162745

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 JULY 2016
Prakashgad, Bandra (E), Mumbai.

Form 13: Calculation of FAC Charge for unmetered categories

Title Calculation of FAC Charge (FAC_{kWh}) for Unmetered categories

Sr. No.	Unmetered Consumer Category	Consumption Norm	FAC Charge ¹	Load	Estimated Recovery
		hrs/HP/year	Rs/HP/ month	HP	Rs Lakh
(A)	(B)	(C)	(D) = $(C)/12*0.746*FA_{C_{kWh}}^2$	(E)	(F)
	LT-AG (> 1318 Hours per year)	1,734.33	11.11		-
	LT-AG (< 1318 Hours per year)	980.00	6.28		-
	Total				

Notes:

1 Round off FOCA Charge to 1 decimal

2 Consider $FOCA_{kWh}$ as per Table 7.1, Sr. No. 7.0

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. For JULY 2016
Prakashgad, Bandra (E), Mumbai.

Form 14: Recovery of FAC Charge			
Title	Recovery of FAC/FOCA Charge		
Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
1.0	Allowable FAC	Rs Lakh	12743.83
2.0	FAC disallowed corresponding to excess Distribution Loss	Rs Lakh	0.00
3.0	Total FAC based on category wise and slab wise allowed to be recovered in the billing month of ____	Rs Lakh	0.00
	Carried forward FAC for recovery during future period (1-3-4)	Rs Lakh	0.00

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. For JULY 2016
Prakashgad, Bandra (E), Mumbai.

Form 15: Summary

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

Sr. No.	Parameter	Unit	Value
(A)	(B)	(C)	(D)
1.0	Calculation of Z_{FAC}		
1.1	Change in cost of generation and power purchase attributable to Sales within the License Area (F)	Rs Lakh	13,998.32
1.2	Carrying cost for over-recovery/under-recovery (C)	Rs Lakh	(29.50)
1.3	Adjustment factor for over-recovery/under-recovery (B)		(1,224.99)
1.4	Z_{FAC} = F+C+B	Rs Lakh	12,743.83
2.0	Calculation of FAC Charge		
2.1	Energy Sales within the License Area	MU	7,830.54
2.2	Excess Distribution Loss	MU	-
2.3	FAC Charge (FAC _{kWh}) without considering cap on monthly FAC Charge	Paise/kWh	16.27
2.4	Z _{FAC} per kWh	Paise/kWh	16.27
2.5	FAC Charge (FAC_{kWh}) considering cap on monthly FAC Charge	Rs/kWh	0.1627
3.0	FAC (A)		
3.1	FAC (A) considering cap on Monthly FAC Charge	Rs Lakh	12,743.83
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	12,743.83
3.4	C/f from Previous month 2.	Rs Lakh	-
3.5	Under/over recovery from 6.6 statement 3.	Rs Lakh	-
3.6	Total FAC to be charged in current month 4 = (1+2+3)	Rs Lakh	-
3.7	Actual FAC charged in current month categorywise and slabwise 5.	Rs Lakh	12,743.83
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

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO.LTD

FAC For JULY 2016

Sr. No.	Categories	ABR	energy charges	Average Cost of Supply	K-Factor=eng ch/ACoS	Actual FAC (Paise/Kwh)	Categoriesw/ se FAC WITHOUT CAP (paise/Kwh)	Categoriesw/ se FAC WITH CAP (paise/Kwh)	Monthly Sale in Mus/HP	RATE PER HP	FAC AMT WITHOUT CAP	Adjustment of Under Recovery	FAC Without CAP After Adjustment of Under Recovery	FAC amount with CAP	FAC TO BE CHARGED IN BILLING MONTH	C/F TO THE NEXT MONTH
A	LT Category		PAISA KWH	PAISA KWH							IN LAKHS				PAISA/KWH	IN LAKHS
1	Domestic (LT-I)					a	b		d		e=b*d				k	n
A	BPL (0-30 Units)	1.42	0.87	6.03	0.24	16.27	3.83	17.40	4.84		1.85	0.15	2.01	8.42	4.15	0.00
B	Consumption > 30 Units per month															
i	1-100 Units	4.33	3.76	6.03	0.72	16.27	11.69	75.20	1072.37		1253.21	102.24	1355.46	8064.25	12.64	0.00
ii	101-300 Units	7.75	7.21	6.03	1.29	16.27	20.92	144.20	467.62		978.11	79.80	1057.91	6743.13	22.62	0.00
iii	301-500 Units	10.5	9.95	6.03	1.74	16.27	28.34	199.00	77.52		219.69	17.92	237.62	1542.73	30.65	0.00
iv	500-1000 Units	11.87	11.31	6.03	1.97	16.27	32.04	226.20	45.47		145.67	11.88	157.55	1028.54	34.65	0.00
v	Above 1000 Units	12.99	12.50	6.03	2.15	16.27	35.06	250.00	40.00		140.24	11.44	151.68	1000.00	37.92	0.00
	Sub Total Domestic															
2	Non Domestic (LT-2)															
A	0-20 KW															
a	0-200 Units	7.89	6.60	6.03	1.31	16.27	21.29	132.00	144.26		307.19	25.06	332.25	1904.22	23.03	0.00
b	Above 200 units	10.99	9.62	6.03	1.82	16.27	29.66	192.40	143.83		426.61	34.81	461.42	2767.26	32.08	0.00
B	>20-50 KW	12.43	10.20	6.03	2.06	16.27	33.55	204.00	56.56		189.75	15.48	205.23	1153.85	36.28	0.00
	>50 KW	15.07	13.01	6.03	2.50	16.27	40.67	260.20	35.54		144.53	11.79	156.32	924.62	43.99	0.00
	Sub Total Non Dmestic (LT-2)															
3	Public Water Works (LT-III)															
A	0-20 KW	3.04	2.70	6.03	0.50	16.27	8.20	54.00	43.62		35.79	2.92	38.71	235.55	8.87	0.00
B	20-40 KW	4.16	3.80	6.03	0.69	16.27	11.23	76.00	5.47		6.14	0.50	6.64	41.57	12.14	0.00
C	40-50 KW	5.37	5.00	6.03	0.89	16.27	14.49	100.00	4.16		6.02	0.49	6.52	41.56	15.68	0.00
	Sub Total PWW															
4	Agricuture (LT-IV)															
A	Unmetered Tariff															
1	Zones with Consumption norm < 1318 Hrs/HP/Annum															
A)	0-5 HP	3.53	2.54	6.03	0.59	16.27	9.53	50.89	4204316.05	5.80	244.03	19.91	263.94	2139.59	6.28	0.00
B)	Above 5 HP	3.53	2.78	6.03	0.59	16.27	9.53	55.54		33.83	0.00	0.00	0.00		6.28	
2	Zones with Consumption norm > 1318 Hrs/HP/Annum															
A)	0-5 HP	3.53	4.12	6.03	0.59	16.27	9.53	82.37	4189983.51	10.27	430.39	35.11	465.51	3451.40	11.11	0.00
B)	Above 5 HP	3.53	4.47	6.03	0.59	16.27	9.53	89.41		96.40	0.00	0.00	0.00		11.11	
B	Metered Tariff PUMP SETS	2.81	2.58	6.03	0.47	16.27	7.58	51.60	1109.68		841.58	68.66	910.24	5725.93	8.20	0.00
	Metered Tariff OTHER	4.17	3.60	6.03	0.69	16.27	11.25	72.00	8.63		9.72	0.79	10.51	62.17	12.17	0.00
	Sub Total Agriculture															
5	LT Industries (LT-V)															
A	Power Loom															
	0-20 KW	5.52	5.43	6.03	0.92	16.27	14.90	108.60	141.82		211.29	17.24	228.53	1540.19	16.11	0.00
	Above 20 KW	7.23	6.88	6.03	1.20	16.27	19.51	137.60	133.36		260.23	21.23	281.46	1835.04	21.11	0.00
	General															
A	0-20 KW	5.83	5.51	6.03	0.97	16.27	15.73	110.20	181.42		285.45	23.29	308.74	1999.21	17.02	0.00
B	Above 20 KW	8.39	6.98	6.03	1.39	16.27	22.64	139.60	247.51		560.46	45.73	606.19	3455.25	24.49	0.00
6	Street Light (LT-VI)															
A	Grampanchayat A, B & C Class Municipal Council	4.89	4.78	6.03	0.81	16.27	13.20	95.60	105.86		139.72	11.40	151.12	1012.06	14.27	0.00
B	Municipal corporation Area	5.98	5.80	6.03	0.99	16.27	16.14	116.00	37.72		60.88	4.97	65.85	437.56	17.46	0.00
	Sub Total Street Light															
7	Temporary Connection (LT-VII)															
A	Temporary Connection (Religious)	4.51	3.71	6.03	0.75	16.27	12.17	74.20	0.047761		0.06	0.00	0.06	0.35	13.17	0.00
B	Temporary Connection (Other Purposes)	15.66	15.00	6.03	2.60	16.27	42.27	300.00	0.975707		4.12	0.34	4.46	29.27	45.71	0.00
	Sub Total Temporary															
8	Advertising and Hording (LT-VIII)	21.40	17.00	6.03	3.55	16.27	57.76	340.00	0.30		1.76	0.14	1.90	10.34	62.47	0.00
9	Crematorium & Burial (LT-IX)	4.12	3.91	6.03	0.68	16.27	11.12	78.20	0.16		0.18	0.01	0.19	1.24	12.03	0.00

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO.LTD

FAC For JULY 2016

10	Public Services (LT X)															
	A Government															
	I <20 kw	6.31														
	0-200 units	5.59	4.54	6.03	0.93	16.27	15.09	90.80	0.74		1.11	0.09	1.20	6.68	16.32	0.00
	> 200 units	6.76	5.84	6.03	1.12	16.27	18.24	116.80	1.27		2.31	0.19	2.50	14.78	19.73	0.00
	II >20 -50 kw	8.13	6.50	6.03	1.35	16.27	21.94	130.00	0.61		1.34	0.11	1.44	7.91	23.73	0.00
	III >50 kw	8.67	7.20	6.03	1.44	16.27	23.40	144.00	0.47		1.09	0.09	1.18	6.71	25.31	0.00
	B others	7.90														
	0-20 KW	7.30														
	0-200 Units	5.97	4.92	6.03	0.99	16.27	16.11	98.40	5.52		8.89	0.72	9.61	54.27	17.43	0.00
	Above 200 units	8.14	7.22	6.03	1.35	16.27	21.97	144.40	11.47		25.20	2.06	27.26	165.63	23.76	0.00
	>20-50 KW	8.95	7.32	6.03	1.48	16.27	24.16	146.40	5.09		12.29	1.00	13.29	74.46	26.13	0.00
	>50 KW	9.15	7.68	6.03	1.52	16.27	24.70	153.60	5.21		12.87	1.05	13.92	80.02	26.71	0.00
	Total LT Category							8398438.67			6969.768	568.627	7538.394	47565.779		0.000

Sr. No.	Categories	ABR	energy charges	Average Cost of Supply	K - Factor=eng ch/ACoS	Actual FAC without CAP (Paise/Kw h)	Categories wise FAC WITHOUT CAP (paise/Kw h)	Categories wise FAC WITH CAP (paise/Kw h)	Monthly Sale in Mus/HP	RATE PER HP	FAC AMT WITHOUT CAP	Adjustment of Under Recovery	FAC Without CAP After Adjustment of Under Recovery	FAC amount with CAP	FAC TO BE CHARGED IN BILLING MONTH	C/F TO THE NEXT MONTH
	HT Category		RS/KWH								IN LAKHS			IN LAKHS	PAISA/KWH	
	HT-I - Industries															
A	HT-I - Cont (Express Feeders)	8.23	7.21	6.03	1.36	16.27	22.21	144.20	687.42		1526.91	124.57	1651.48	9912.60	24.02	0.00
B	HT-I - NonCont (Non Express Feeders)	7.69	6.71	6.03	1.28	16.27	20.75	134.20	1077.88		2237.11	182.51	2419.62	14465.14	22.45	0.00
C	HT-I - Seasonal Category	10.47	7.80	6.03	1.74	16.27	28.26	156.00	1.61		4.55	0.37	4.92	25.11	30.56	0.00
2	HT-II Commercial															
a	Express Feeder	12.95	11.15	6.03	2.15	16.27	34.95	223.00	51.43		179.74	14.66	194.41	1146.83	37.80	0.00
b	Non-Express Feeder	11.94	10.62	6.03	1.98	16.27	32.23	212.40	115.82		373.24	30.45	403.69	2460.09	34.85	0.00
	Total HT II Commercial															
3	HT-III Railways	8.46	8.46	6.03	1.40	16.27	22.83	169.20	0.37		0.84	0.07	0.91	6.21	24.70	0.00
4	HT-IV Public Water Works (PWW)															
A	Express Feeders	6.19	5.64	6.03	1.03	16.27	16.71	112.80	120.57		201.43	16.43	217.86	1360.05	18.07	0.00
B	Non-Express Feeders	6.56	5.42	6.03	1.09	16.27	17.70	108.40	19.36		34.28	2.80	37.07	209.86	19.15	0.00
	Total HT-IV Public Water Works (PWW)															
5	HT-V Agricultural	3.56	3.32	6.03	0.59	16.27	9.61	66.40	20.99		20.17	1.65	21.82	139.40	10.39	0.00
6	HT-VI Bulk Supply															
A	Residential Complex	6.90	5.81	6.03	1.14	16.27	18.62	116.20	18.87		35.13	2.87	38.00	219.22	20.14	0.00
B	Commercial Complex															
7	Total HT-VI Bulk Supply															
8	Temporary Supply															
8	religious	3.71	3.71	6.03	0.62	16.27	10.01	74.20	0.00		0.00	0.00	0.00	0.00		0.00
	other	16.39	12.50	6.03	2.72	16.27	44.24	250.00	0.24		1.08	0.09	1.16	6.08	44.24	0.00
9	Public services(HT IX)															
	A Government															
	Express Feeders	7.91	7.20	6.03	1.31	16.27	21.35	144.00	9.62		20.54	1.68	22.22	138.57	23.09	0.00
	Non-Express Feeders	7.71	6.60	6.03	1.28	16.27	20.81	132.00	5.82		12.10	0.99	13.09	76.78	22.51	0.00
	B Others	9.56														
	Express Feeders	9.60	8.89	6.03	1.59	16.27	25.91	177.80	26.95		69.82	5.70	75.52	479.13	28.02	0.00
	Non-Express Feeders	9.52	8.41	6.03	1.58	16.27	25.69	168.20	30.70		78.87	6.43	85.31	516.33	27.79	0.00
	HT X Port	11.32	10.91	6.03	1.88	16.27	30.55	218.20	5.55		16.96	1.38	18.35	121.15	33.04	0.00
	MSPGCL Aux supply															
	HT XI METRO MONO RAL		8.46													
	TOTAL HT Category						0.00		2193.20		4812.78	392.65	5205.43	31282.54		0.00
	TOTAL LT Category						0.00		8398438.67		6969.77	568.63	7538.39	47565.78		0.00
	GRAND TOTAL								8400631.87		11782.55	961.28	12743.83	78848.31		0.00
													16.27			
	Actual FAC to Be levied				FAC to be Charged						12743.83					
	diff c/f in next month				C/F due to Formula Error						961.28					

FAC for JULY 2016 – Brief Write-up

- Fuel Adjustment Cost (FAC) arises due to change in the variable cost component of power purchase. Such change being the difference between the approved (under prevailing Tariff order) and actual energy charge component of power purchase cost for a particular month.
- Multi-Year Tariff (MYT) Regulations framed by Maharashtra Electricity Regulatory Commission (MERC) allows for passing such FAC to consumers. The methodology and formula for calculation of FAC is prescribed under MYT Regulations. MSEDCL levies FAC to its consumers on monthly basis according to the given formula for its calculation and other provisions in the said Regulations.
- The Fuel Adjustment Cost calculated for the month July 16 to be levied on consumers in the billing for Oct 16 amounts to **Rs.127.44 crs.** the details of which are shown as under

Particulars	Amount In Rs Crs
MSPGCL MOD approved existing sources	75.42
Central Sector	59.48
NCE	-93.14
IPP	-22.49
other Sources purchase (above MERC approved rate Rs.2.53 p/u threshold limit , exchanges)	120.71
Total A	139.98
over/under recovery and interest thereon etc. B	-12.54
Total FAC to be charged (A+B)	127.44
Note:- The above details have been derived considering weighted average variable cost of different stations under respective sources the details of which are given in form 5 of FAC calculation,	

- Considering this, the average rate of FAC worked out is **16.27 paise** per unit.
- The FAC per unit is calculated considering metered as well as unmetered energy sales.
- The **category wise and slab wise FAC rates** applicable for the month can be seen from our Circular no. dtd. available on MSEDCL's website.
- The **detailed calculation** of FAC in the prescribed formats is also available on MSEDCL's website.

GM(PP)

CE(PP)

CGM(CA)

ED(COMM)

DIR (OP)

DIR (F)

CMD