



Maharashtra State Electricity Distribution Co. Ltd.

Prakashgad, Plot No.G-9, Bandra (East), Mumbai – 400 051
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Ref. No: SE/TRC/39320

Date: 22.12.2009

To
The Secretary,
Maharashtra Electricity Regulatory Commission,
13th Floor, World Trade Centre,
Cuffe Parade, Mumbai - 400 005

Sub: Petition for determination of additional cost as Reliability Charges for withdrawal of load shedding in the Thane II Urban region including Kalwa sub-division.

Respected Sir,

In pursuance of Commissions order dated 30.11.2009 in case no 31 of 2009, MSEDCL has implemented withdrawal of Load Shedding in the Thane region of MSEDCL license area.

However, in Thane Urban circle, there has been a reorganisation of divisions and as a result of reorganisation only Kalwa sub-division is subjected for Load shedding in Thane II Division. Hence MSEDCL is submitting this present Petition for inclusion of Kalwa sub-division for withdrawal of Load shedding.

The requisite fees of Rs. 10,000/- (Ten thousand only) is enclosed herewith vide demand draft No. 825736 dated 21/12/2009.

Thanking you,

Yours faithfully,

Sd-
Executive Director (Commercial)
MSEDCL

Encl: As above.

**BEFORE THE MAHARASHTRA ELECTRICITY REGULATORY COMMISSION,
MUMBAI**

FILING NO.

CASE NO.

IN THE MATTER OF

Petition for determination of additional cost as Reliability Charges for withdrawal of load shedding in the Thane II Urban region including Kalwa sub-division.

I, Abhijit Deshpande, Aged 44 years, son of Shri. Jayant Deshpande, having my office at MSEDCL, Prakashgad, Plot No.G-9, Anant Kanekar Marg, Bandra (E), Mumbai-400051 do solemnly affirm and say as follows:

I am Executive Director (Commercial) of Maharashtra State Electricity Distribution Co. Ltd., the petitioner in the above matter and am duly authorized to make this affidavit.

All the other necessary details as specified in the petition are based on the information received from the concerned officers of the Company and I believe them to be true.

I say that there are no proceedings pending in any Court of Law / Tribunal or Arbitrator or any other authority, wherein the Petitioners are the Party and where the issues arising and / or relief sought are identical or similar to the issues arising in the matter pending before the Commission.

I solemnly affirm at Mumbai on this **22.12.2009** that the contents of this affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

Sd-
Executive Director (Comm.)
MSEDCL, Mumbai

Identified before me

**BEFORE THE MAHARASHTRA ELECTRICITY REGULATORY COMMISSION,
MUMBAI**

Filing No.: _____

Case No. : _____

IN THE MATTER OF: Petition for determination of additional cost as Reliability Charges for withdrawal of load shedding in the Thane II Urban Region including Kalwa sub-division.

AND

IN THE MATTER OF: Maharashtra State Electricity Distribution Company Limited,
Prakashgad, Bandra (East), Mumbai

THE MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED
RESPECTFULLY SUBMITS:

1. The Maharashtra State Electricity Distribution Company Limited (MSEDCL or Maha Vitaran) is a Company formed under the Government of Maharashtra General Resolution No. ELA-1003/P.K.8588/Bhag-2/Urja-5 Dated January 24, 2005 with effect from 6th June 2005 according to the provisions envisaged in the Electricity Act 2003. It has been registered with the Registrar of Companies, Mumbai on 31st May 2005.
2. MSEDCL filed a petition dated June 15, 2009 under Sections 62(3), 62(4), 86(1)(b) and 94(2) of the Electricity Act, 2003 (EA 2003), and under Clause 8.2.1 of the Tariff Policy, for determination of Additional Supply Charges for withdrawal of load shedding in the headquarters of Revenue Divisions in MSEDCL licence area, viz., Amravati, Nagpur, Aurangabad, Nasik, Pune, Thane and Vashi.
3. The Commission conducted a Technical Validation Session (TVS) on July 10, 2009 wherein the Commission directed MSEDCL to submit a revised Petition with the calculation of the Additional Supply Charge based on different scenarios of load shedding as well as addressing other queries raised during the TVS.
4. MSEDCL submitted its revised Petition in the matter on July 28, 2009. Based on the submissions made by MSEDCL, MERC scheduled Public Hearing at Amravati, Nagpur, Aurangabad, Nasik, Pune, Navi Mumbai on various dates.

5. The Commission issued an Order dated 30th November 2009 [Case No. 31 of 2009] in the matter of Petition for determination of Additional Supply Charge for withdrawal of Load Shedding in the Headquarters of Revenue Divisions in MSEDCL License Area. In the said Order the Hon'ble Commission has observed as under:

12(b)

In view of the positive response to MSEDCL's proposal by the affected consumers in the Amravati region, Nagpur region, Aurangabad region, Pune Region, Navi Mumbai, and Thane Region (including Mulund and, Bhandup), the Commission has approved the Zero Load Shedding scheme for these regions as proposed by MSEDCL, with certain modifications.

6. The Commission has further approved the Reliability charge of 28 paise per unit for Thane region.
7. MSEDCL submits that for the region of Thane, MSEDCL has considered the areas under Thane Urban circle which includes the areas of Bhandup, Thane, Mulund, Wagle Estate and Kopri sub-division of Kalwa Division.
8. A division Thane III, comprising of Mumbra and Shil sub-division has been newly formed and sub-divisions under old Thane, Wagle Estate and Kalwa Divisions are reshuffled from Thane I and Thane II Divisions. The newly formed division Thane III and modified divisions, Thane I and Thane II and Wagle Estate has become functional with effect from September 2009 after the petition was filed.
9. As per the new pattern, the withdrawal of load shedding is implemented in pursuance of the Order dated 30th November 2009 [Case No. 31 of 2009] in Bhandup, Mulund, Thane I, Wagle Estate Divisions and under Vikas and Power House Sub-division of Thane II Division. The Kalwa sub-division under Thane II is only sub-division where ZLS is not implemented and load shedding is implemented as per D group. As Thane II Division comprising of Kalwa sub-Division is now under C group, and moreover Kalwa sub-division being an integral part of restructured Thane II division, which is already covered under ZLS scheme, it is kindly requested to consider Kalwa sub-division also for withdrawal of Load shedding. Thus MSEDCL submits this present proposal to consider the inclusion of Kalwa sub-division for withdrawal of load shedding.
10. MSEDCL is submitting the working of Reliability Charges for Thane including Kalwa on the same principle as considered by the Commission in the Order dated 30th November 2009 in Case 31 of 2009. The working of Distribution loss,

consumption, Average Billing Rate, Load requirement and working of Reliability charges is attached in Annexure 1 to 5. The Revised Reliability Charge for Thane Region including Kalwa Sub Division works out to be 41 paise per unit.

11. **Prayer:**

Thus, based on the submission made in the foregoing paragraphs, MSEDCL prays that the Hon'ble Commission may please:

- a. Approve implementation of proposal of withdrawal of load shedding in the Thane Region including Kalwa Sub Division as per the revised proposal
- b. Approve the proposal for determination of Reliability Charge for the above area as proposed by MSEDCL;
- c. Permit MSEDCL to implement the proposed model within fortnight of the issuance of the Order till November 2010.
- d. Permit a detailed reconciliation of all costs and recovery on a quarterly basis.
- e. Permit adjustment for any under/ (over) recovery which will be carried out in every quarter and recovery to be effected in subsequent quarter.
- f. Consider the above proposal for a favourable dispensation.
- g. Condone errors/omission, if any, and may please give an opportunity to rectify the same and to file additional data, information as may be required.

Deponent

Sd-

Executive Director (Commercial)
MSEDCL

Annexure 1

DISTRIBUTION LOSSES FOR THE PERIOD FROM APRIL-08 TO MARCH-09 including Kalwa					
Div.	Gross Input	HT Sale	LT sale from IT	Total Units	% Dist Losses
1	2	3	7	8	9
BU-4732 Ishwar Nagar S/D	259.070	131.800	103.240	235.04	9.28
BU-4733 Bhandup (E) S/D	134.560	21.440	90.730	112.17	16.64
BU-4734 Pannalal S/D Bhandup Division	192.420	69.710	91.170	160.88	16.39
	586.050	222.950	285.140	508.09	13.30
Neelamnagar S/D	90.140	1.010	78.380	79.39	11.93
Sarvodaya S/D	193.130	26.190	140.770	166.96	13.55
Panchrasta S/D	151.450	14.630	115.250	129.88	14.24
Mulund Division	434.720	41.830	334.400	376.23	13.45
Gadkari S/D	180.890	52.620	98.340	150.96	16.55
Kisan nagar S/D	76.130	18.490	42.610	61.10	19.74
Kopari S/D	94.6900	41.380	40.850	82.23	13.16
Thane-I Division	351.710	112.490	181.800	294.29	16.33
Vikas S/D	219.720	92.510	98.390	190.90	13.12
Power House S/D	149.760	7.750	116.930	124.68	16.75
Kalwa S/D	156.5300	34.160	72.220	106.38	32.04
Thane-II Division	526.010	134.420	287.540	421.96	19.78
Wagle Estate S/D	115.560	56.430	42.630	99.06	14.28
Kolshet S/D	320.010	90.740	183.060	273.80	14.44
Lokmanya S/D	147.230	39.010	80.040	119.05	19.14
Wagle Estate	582.800	186.180	305.730	491.91	15.60
Thane Urban Circle	2481.290	697.870	1394.610	2092.480	15.67

Annexure 2

Consumption considering All Consumers (MU)

Months	Thane
Apr-08	184.64
May-08	183.65
Jun-08	187.34
Jul-08	175.65
Aug-08	168.82
Sep-08	169.56
Oct-08	166.18
Nov-08	177.65
Dec-08	154.37
Jan-09	160.52
Feb-09	167.09
Mar-09	177.77
Total	2073.24
Avg of 12 months	172.77
Consumers Exlcuded	
BPL	0.31
Express feeder	351.57
Total	351.87
Avg of 12 months	29.32
Total Consumption for ASC	143.447

Annexure 3

Average Billing Rate - THANE

Month	Demand	Units billed per month	Rate of Realization
	Rs (Cr)	Mus	Rs/Unit
Apr-08	88.31	184.64	
May-08	84.28	183.65	
Jun-08	88.69	187.34	
Jul-08	90.24	175.65	
Aug-08	92.37	168.82	
Sep-08	91.58	169.56	
Oct-08	90.16	166.18	
Nov-08	95.35	177.65	
Dec-08	85.00	154.37	
Jan-09	89.42	160.52	
Feb-09	96.80	167.09	
Mar-09	103.98	177.77	
Total	1096.18	2073.24	5.29
Average Rise in Tariff (as per Commission's Order in Case No. 116 of 2008)			4.20%
Increased ABR			5.51

Annexure 4
Requirement of Power to mitigate Load shedding

Division	% DCL	Group	Average load of Urban feeder	Scenario as per Scenario-IV		Average load of MIDC/ Industries having one day staggering	Scenario as per Scenario-IV		Total MWH
			MW	LS Hrs.	MWH	MW	LS Hrs.	MWH	MWH
Bhandup	20	B	81.70	3.50	285.95	0	2.29	0.00	285.95
Kalwa (Kopari)	25	B	18.25	3.50	63.88	0	2.29	0.00	63.88
Thane	21	B	65.27	3.50	228.45	0	2.29	0.00	228.45
Mulund	15	A	87.42	2.75	240.41	0	2.29	0.00	240.41
Wagle Estate	22	B	61.77	3.50	216.20	25.79	2.29	59.06	275.25
Kalwa S/D	42	D	23.36	5.00	116.80	4.30	2.29	9.85	126.65
Total			337.77		1151.67	30.09		68.91	1220.58
MW/ Requirement for 12 hrs at Dist. Periphery			MWH Requirement		1152			69	1221
			MW Requirement		96			6	102
MW requirement at MSETCL Peripheri (Trns. Loss 4.85%)			MWH Requirement		1210			72	1283
			MW Requirement		101			6	107

MW requirement for Urban	101	MW for 12 hrs	Mu requirement	1.21	Mus per day
MW requirement for Stagg	6	MW for 12 hrs	Mu requirement	0.07	Mus per day
Total MW requirement	107	MW for 12 hrs	Mu requirement	1.28	Mus per day

Annexure 5

Particulars	Rate	Assumptions	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	
Days			31	31	28	31	30	31	30	31	31	30	31	30	365
Power purchase rate at State Boundary	Rs./kWh	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	
Energy requirement in MW	MW	102	102	102	102	102	102	102	102	102	102	102	102	102	
Hours usage	Hrs	12	12	12	12	12	12	12	12	12	12	12	12	12	
Hours considering 80% effective load shedding	Hrs	80%	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	
MWh requirement	MWh		976	976	976	976	976	976	976	976	976	976	976	976	
MU requirement per day	MU		0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
Consumption in MU excluding Expees feeder and BPL, considering CAGR	MU	151	151	151	151	151	151	151	151	151	151	151	151	151	1962
Monthly support at Dist end in MU	MU		30.27	30.27	27.34	30.27	29.29	30.27	29.29	30.27	30.27	29.29	30.27	29.29	
Distribution loss	MU	16%	4.74	4.74	4.28	4.74	4.59	4.74	4.59	4.74	4.74	4.59	4.74	4.59	
Additional sales after accounting dist losses	MU		25.53	25.53	23.06	25.53	24.70	25.53	24.70	25.53	25.53	24.70	25.53	24.70	
Net units reqd for sale to consumers	MU		176.48	176.48	174.01	176.48	175.65	176.48	175.65	176.48	176.48	175.65	176.48	175.65	2111.95
MW requirement at T<->D interface (add trans. loss of 4.85%)	MW	4.85%	106.90	106.90	106.90	106.90	106.90	106.90	106.90	106.90	106.90	106.90	106.90	106.90	
Monthly support after losses in MU	MU		31.81	31.81	28.73	31.81	30.79	31.81	30.79	31.81	31.81	30.79	31.81	30.79	
Power Purchase cost	Rs.Cr		21.47	21.47	19.40	21.47	20.78	21.47	20.78	21.47	21.47	20.78	21.47	20.78	252.84
Reduction in purchase cost due to additional sale @ Rs/unit	Rs.Cr	5.51	14.06	14.06	12.70	14.06	13.61	14.06	13.61	14.06	14.06	13.61	14.06	13.61	165.59
Actual burden of power purchase for mitigating load shedding	Rs.Cr		7.41	7.41	6.69	7.41	7.17	7.41	7.17	7.41	7.41	7.17	7.41	7.17	87.25
Reliability charge per unit	Rs./kWh		0.42	0.42	0.38	0.42	0.41	0.42	0.41	0.42	0.42	0.41	0.42	0.41	0.41