

Executive Summary – Pen ZLS model

As per the Principles & Protocol of Load Shedding (PPLS) determined by Maharashtra Electricity Regulatory Commission from time to time, Load Shedding is being implemented in the area covered under O & M Circle, Pen of Maharashtra State Electricity Distribution Company Ltd. (MSEDCL).

Humanist Consumers Council (HCC), a consumer organization, having its Registered Office at Alfa Electronics, near ST stand, Alibaug, District Raigad has come forward with a proposal indicating that the HCC has arranged for additional power sufficient to mitigate Load Shedding of Pen Circle, including MIDC Division area having one day staggered holiday.

In the recent past, Hon'ble Commission after following due regulatory process has issued orders whereby consumer / industrial organization can be appointed as interim franchisee with the responsibility to identify the additional power to mitigate load shedding and further subject to condition that the consumers of the beneficiary area should be willing to bear the additional cost of power procured for the said area by way of additional charge called as Reliability charge (RC).

Accordingly, based on the principles laid down by the Hon'ble Commission in the said Orders, MSEDCL has submitted a petition on 2nd March 2009 and thereafter on 16th March 2009 for –

1. Implementation of Zero Load Shedding model for the area covered under Pen Circle based on HCC proposal and MSEDCL will procure the additional power on behalf of HCC to mitigate load shedding, and
2. Approval of Reliability Charges 18 paise per unit proposed to be recovered from the beneficiary consumers for compensating the expenditure that would be incurred for procurement of additional power necessary to mitigate Load Shedding (LS) in Pen Circle.

Salient Features of MSEDCL's proposal are as under:

1. The existing principles and protocols of load shedding (PPLS) effective from 14th January 2009 which is as under; has been considered for estimating the quantum of additional power to be procured,

Region	Other regions	Agricultural dominated regions
Groups	Hours	Hours
A	2.45	10.00
B	3.30	10.30
C	4.15	11.00
D	5.00	11.30

2. The sheddable load of Pen circle on the basis of the above PPLS is as under:

Dec-08 Load Profile Pen Circle								
DIVISION	Non Sheddable load	Sheddable Load		Total load	DCL Oct 07 to Sept 08	DCL Group	LS Hours	
		MIDC/ Industries having One Day Staggering	Average load of Urban feeder				Loadshedding Hours	Staggering 16 Hrs/week*
Pen Circle								*Effective LS hours /day = 16/7=2.29 Hrs.
Goregoan	60.35	6.70	40.51	107.56	21	A	2.75	2.29
Panvel R	479.80	28.35	53.09	561.24	18	A	2.75	2.29
Total load	540.15	35.05	93.60	668.80				

3. On the basis of a 12 hour support, the MW requirement to mitigate load shedding in Pen Circle works out to 28 MW.

ZLS Area	Sheddable load	Load Shedding Hours per day	MWh support per day
	MW		MWh
Pen	93.60	2.75	257.40
MIDC/ Industries having One Day Staggering	35.05	2.29	80.11
TOTAL	128.65		337.51
MW for 12 hrs			28.00

4. The Zero Load Shedding Scheme shall be operative for the period April 2009 to March 2010
5. Effective load shedding is considered only for 22 days in a month based on past trend
6. Reliability Charge is proposed to be recovered from all the consumers situated in the Pen Circle except residential consumers consuming upto 100 units per month and Agricultural consumers.

7. Reliability Charge is proposed to be recovered over the period April 2009 to March 2010
8. The distribution loss in Pen Circle is considered at 5.33% as prevalent for the period January – December 2008
9. In case of any variation in the PPLS now applicable & considered in the petition, proportionate incremental load shedding will be carried out by MSEDCL unless additional power is made available and correspondingly there can be an effect of increase in Reliability Charge. Similarly, if the power to be procured is not available on a particular day, the consumers shall be subjected to LS on such day.
10. In case there is a withdrawal of Load shedding due to system improvement on real time basis the consumers of ZLS area will continue to bear the cost of the additional power that is procured for ZLS area.
11. Reconciliation of cost of additional power procured and the reliability Charge recovered will be done on quarterly basis as may be permitted by the Hon'ble Commission and accordingly under / over recovery will be passed on to the consumers in subsequent months.
12. The MW support required to mitigate load shedding in the beneficiary area would change with a change in the demand supply gap as follows:

MW Requirement in different Load Shedding Scenarios for Pen					
	DCL Group	Load Shedding Hours	Staggering 16 Hrs/week	MWH Requirement	MW Requirement for 12 hrs
Scenario 1	A	1.25	2.29	197.11	16
Scenario 2	A	1.75	2.29	243.91	20
Scenario 3	A	2.00	2.29	267.31	22
Scenario 4	A	2.75	2.29	337.51	28
Scenario 5	A	3.25	3.43	424.42	35
Scenario 6	A	3.75	3.43	471.22	39

13. MSEDCL has issued the Public Notice as per the MERC directives prior to the Public Hearing for awareness and information.

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