

**Maharashtra State Electricity Distribution Co. Ltd.**

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No.SE/LM/LS/1000

Date: 14.01.2013

**CIRCULAR- 46**

**Sub:** Revised load shedding protocol.

- Ref:**
1. Circular No.43 vide No.SE/LM/LS/10400 dt. 21.04.2012.
  2. Circular No.44 vide No.SE/LM/LS/10472 dt. 23.04.2012.
  3. Circular No.45 vide No.SE/LM/LS/15423 dt. 02.06.2012.
  4. Letter No.SE/LM/20111 dt.13.7.2012.
  5. Letter No.SE/LM/23139 dt.14.8.2012.
  6. MERC Order in Case No.41 of 2012 dt.26.11.2012.
- .....

MERC has issued order on dt.26.11.2012 in the matter of Sue-Motto Case in the matter of Load Shedding Circulars issued by MSEDCL ( Case No. 41 of 2012).

Based on this order, the load shedding protocol is revised.

The broad guidelines for implementation of load shedding protocol are as below:

1. The load shedding is to be carried out considering feeder as a base.

1.1. No load shedding to Industries on Industrial feeders.

1.2. No load shedding to express feeders for Water Works, IT Parks and utilities Feeders.

2. The sheddable feeders are classified as below :

2.1. **Ag Feeders :**

This includes separated Ag. Feeders and Single Phasing scheme feeders.

2.2. **Other /Non Ag. Feeders.**

This includes Feeders having Ag. Load less than 25% of total load on the feeder.

2.3. **Ag. Dominated or mix feeders.**

This includes feeder having Ag. Load more than 25% of total load on the feeder.



### 3. Distribution Collection Losses ( DCL ) :

#### 3.1 DCL computation -

- For computation of DCL, the weighted average collection efficiency should be considered.
- The DCL are computed by IT section .
- The DCL group of the feeder should be determined as per loss level given in the table-A below.
- In case of improvement of the DCL group as compared with previous month, the approval should be obtained from competent Authority before implementation of load shedding.

The load shedding to such feeders should be implemented as per previous group till the approval.

- In case of degraded or the same DCL as compared with previous month the load shedding should be implemented immediately without approval.
- The same process should be continued in future also.

#### 3.2 Review of Distribution Collection Losses :

##### ➤ Other /Non Ag. Feeders.

The DCL should be computed every month considering sliding three months including feeders having Ag. Load <25%.

##### ➤ Ag. Dominated or mix feeders.

For the feeders having quarterly billing cycle, the DCL should be computed quarterly as per the AG billing cycle.

#### 3.3. DCL group and load shedding -

The feeders are classified in group A to G based on Distribution Collection Loss of the feeder.

% DCL range and load shedding hrs.

Table -A

Group	Other /Non AG feeders		Mix /Ag. Dominated feeders	
	Distribution Collection Losses (DCL)	Load shedding hours	Distribution Collection Losses (DCL)	Load shedding hours
A	0% to 18%	3.15	0% to 21%	11.00
B	>18% to 26%	4.00	>21% to 29%	11.30
C	>26% to 34%	4.45	>29% to 37%	12.00
D	>34% to 42%	5.30	>37% to 45%	12.30
E	>42% to 50%	6.15	>45% to 53%	13.00
F	>50% to 58%	7.00	>53% to 61%	13.00
G1	>58% to 66%	7.45	>61% to 68%	13.30
G2	>66% to 74%	8.30	>68% to 76%	14.00
G3	Above 74%	9.15	Above 76%	14.00



#### 4. Ag. Load management schemes:

##### 4.1 Separated Ag. Feeder

The three phase availability of 10 hrs. during night time and 8 hrs. during day time is given in rotation to **Separated Ag. Feeders**.  
The detailed time schedule enclosed ( Annex- ).

4.2 **Separated Gaothan feeders** will have the load shedding as per the respective group of other /non Ag feeders.

4.3 **Single Phasing and Separated Ag. Feeders** where SDT's are installed.

3 phase availability	8 hrs. in day time 10 hrs. in night in rotation.
Load Shedding	Six hrs. per day
Single phase Availability	18 hrs. ( including 3 phase availability)

#### 5. Lift irrigation schemes :

5.1 Lift irrigation schemes on Express feeders should get 16 Hours/day supply at a stretch with weekly one day staggering and no availability to be given between 18.00 to 22.00 hrs,

5.2 This will not be applicable to LIS on mixed feeders.

#### 6. Naxalite area :

6.1 The feeders in Naxalite area should be classified as non Ag/Other feeder category.

6.2 The load shedding in Naxalite area should not be carried out between 6.PM to 6 AM .

#### 7. District head quarters:

The load shedding to the feeders under district head quarters is to be carried out,

up to 18.30 hrs. for the feeders up to E group.

up to 19.00 hrs. for the feeders in F group.

up to 19.30 hrs. for the feeders in G group.



8. Load shedding protocol for religious, tourist and heritage places.

Only the Municipal Limits of following Religious, Tourist, and Heritage places will be load shedding free subject to the condition that their feeders are having DCL% under ABCD groups.

Alibag,	Shirdi,	Panchgani,	Parali-Vj,
Matheran,	Trimbakeshwar,	Pandharpur,	Tuljapur,
Lonawala,	Mahabaleshwar,	Jejuri,	Shegaon.

If at any stage DCL % is increased more than D group , then the load shedding equivalent to its feeder DCL will be applicable and the load shedding hrs will be as below.

up to 18.30 hrs. for the feeders in E group.

up to 19.00 hrs. for the feeders in F group.

up to 19.30 hrs. for the feeders in G group.

9. In case of any events, functions in the division, the withdrawal /shifting of timings of load shedding on any feeders, may be carried out by obtaining the same load relief from other feeders in that division for same time period . The concerned C.E. (O&M) is authorized to take the necessary decision accordingly. The proper record should be maintained for the same.
10. The maximum hours of unavailability of supply (including planned load Shedding, breakdowns etc.) on any feeder should not be more than 14.00 hours for Ag dominated feeders, and 9.15 hours to other/Non Ag feeders. The concerned S.E. (O&M) is authorized to take the necessary decision accordingly.
11. The program of distressed load shedding will be continued, if it becomes the requirement of the system & operated only after directives from L.D. Kalwa.
12. Daily feeder wise hourly load report shall be submitted by concerned SDO to local I.T. and local I.T. will submit the consolidated weekly report to CGM(IT),H.O., Mumbai.
13. The DCL group wise list of feeders should be submitted to this office every month.
14. Wide Publicity of the load shedding program may be given.  
Detailed chart showing names of feeders, time of load shedding etc. should be prepared and displayed prominently in the sub-stations, Sub Dn. office & Section office for matter of transparency.

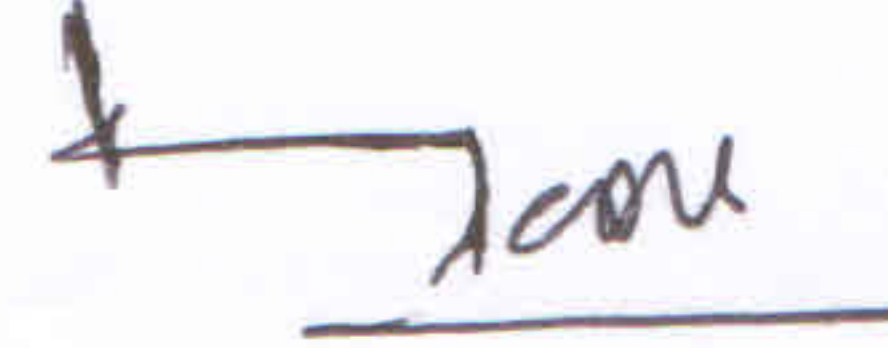


15. Group-wise daily load shedding implemented to the feeders is to be informed to Nodal EHV sub-stations/ Load Management cell, MSEDCL, Kalwa.
16. Load Dispatch Center, Kalwa in consultation with LM Section may take the decision to withdraw/implement Load shedding as per system availability, line constraints, outages, low voltage problems etc. in the interest of system stability and security.

The above Load shedding Program is to be implemented with effect from **00.00 hrs. of 16.01.2013.**

The instructions given above should be followed scrupulously.

Encl: As above



**Director (Operations)**

**Copy s.w.rs.to:-**

- 1) The Hon. M.D., MSEDCL, Mumbai.
- 2) The Hon. M.D., MSETCL, Mumbai.
- 3) The Hon. M.D., MSPGCL, Mumbai.

**Copy f.w.c .to:-**

- 1) The Director (Finance) MSEDCL Mumbai.
- 2) The Director (Project), MSEDCL, Mumbai
- 3) The Director (Operations), MSETCL, Prakashganga, Mumbai.
- 4) The Director (V&S) MSEDCL Mumbai.

**Copy to:-**

- 1) The Executive Director Project/HR/Comm. MSEDCL, Mumbai.
- 2) The Regional Executive Director Pune/Kalyan/Nagpur.
- 3) The Executive Director Trans. O&M / Trans.Planning MSETCL, Mumbai.
- 4) All C.E.s of O&M Zones, M.S.E.T.C.L.
- 5) The Chief Engineer (SLDC), MSETCL, Kalwa.  
- He is requested to incorporate daily load shedding data in the DSR and report to Load Management Section, H.O. regularly.
- 6) The Chief Engineer (LM Cell), MSEDCL, Kalwa.  
- For information and necessary action.
- 7) The Chief Engineer (Gen. O&M), MSEPGL, Mumbai.
- 8) The Chief Engineer Trans. O&M, MSETCL, Mumbai.
- 9) The Chief Engineer (PP), Mumbai.
- 10) The All Chief Engineer's in H.O. Mumbai.
- 11) The Principal Consultant (Dist. Franchisee section) Mumbai.
- 12) All S.E.s O&M Circles M.S.E.D.C.L.
- 13) All S.E.s EHV O&M Circles. M.S.E.T.C.L.
- 14) All E.E.s of O&M Divisions M.S.E.D.C.L.

**Copy to:-**

- 1) The Suptdg. Engineer (LD), MSETCL, Ambazari, Nagpur
- 2) The Suptdg. Engineer (TRC) , H.O. Mumbai.
- 3) The Nodal officer, Bhiwandi Franchisee.

**Copy s.w.r.to:-**

The Secretary,  
Maharashtra Electricity Regulatory Commission,  
World Trade Centre, Centre No.1, 13<sup>th</sup> Floor ,Cuffe Parade,  
Mumbai-400 005.