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DELHI JAL BOARD, GOVT. OF NCT OF DELHI
OFFICE OF THE MEMBER (FINANCE)
VARUNALYA PH-II, KAROL BAGH: NEW DELHI

DJB/Mem(F)/Energy/2011-12/

20 August 2011 JUL 2011 82120

INSTRUCTIONAL ORDER

Subject: Regarding reduction of Load/ Contract Demand of DJB's electric connections

DJB is incurring huge expenditure (₹ 318 Cr approx.) on electricity bills. The expenditure is increasing day by day and with new tariff expected soon, the impact is likely to become more severe. Hence, there is an urgent need to undertake in-house exercise for reducing electricity charges.

2. The following steps may be taken in this regard:

(i) **Reduction of load/ contract demand:** Fixed charges are levied by NDPL/ BSES on Contract Demand. The current contract demand in DJB is far in excess of the maximum demand of DJB in many cases. DERC permits reduction in Sanctioned Load upto 50% and in Contract Demand upto 60% of the Sanctioned load. **As far as possible, the maximum demand should be close to the contract demand** (a buffer margin of +10% of maximum demand may be kept while applying for load reduction). The relevant rules/guidelines of DERC in this regard are as under:

   a. **Contract Demand:** The demand in KVA as provided in the supply agreement, for which the licensee (NDPL/ BSES) makes specific commitment to supply from time to time subject to the governing terms and conditions. In any case, it shall not be less than 60% of the sanctioned load[1].
   b. **Load Reduction:** Load reduction shall be limited to a maximum of 50% of the load at the time of original energisation[2].

(ii) **Improvement of Power factor (PF) for Tubewells:** DJB has around 3000 tubewells and most of these are running at PF of 0.72 to 0.85[3]. This implies a loss for DJB. This loss also holds good for installations with smaller/medium loads.

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[1] Delhi Gazette, extraordinary, 18th April, 2007, Page No.7, Chapter I, Para 2 (o) (internet search may be undertaken for downloading)
[2] Delhi Gazette, extraordinary, 18th April, 2007, Page No.27, Chapter III, Para 21 (vi)
[3] Ideal PF should be unity.

Chief Executive Officer 22/7/11 Delhi Jal Board

CEO

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(iii) **Improvement of Power factor for HT installations:** These are consuming around 70 % of the total power consumption of DJB and hence hold considerable potential for power saving through improvement of PF and ensuring that PF reaches as close to unity as possible.

3. The PF improvement is possible through installation of fixed type of PF panels or through installation of Automatic Power Factor Correction (**APFC**) panels. The budget requirement, if any, for carrying-out PF improvement may be conveyed by 31st July, 2011. This will be given due priority by Finance in allocation.

4. The compliance report in respect of above decisions may be submitted by 16 Aug, 2011 to the Nodal Officer. The compliance shall be closely monitored. The best performing divisions will be considered for suitable reward.

This issues with the approval of CEO, DJB.

Member (Finance)

All E&M CE/ SE/EE **for strict compliance**

Sh. Uttam Kumar, Superintending Engineer, DJB: To act as the nodal officer. He will monitor compliance and render all necessary technical assistance in this endeavor. He will submit detailed compliance report by 17 August 2011 to Member (Finance).

Copy to:

1. CEO: For information please
2. All Members
3. Dir (F&A)
4. All Chief Engineers

Member (Finance)