

**MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.**  
**(A GOVT. OF MAHARASHTRA UNDERTAKING)**  
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Date: 13 AUG 2018

**Commercial Circular No. 309**

**Sub:** Release of connections with multiple metering points in respect of consumers in Distribution Franchisee through MOU route area having vertical bus risers.

In the board meeting dated 05<sup>th</sup> May 2018, the MSEDCL Board has been apprised about the present status of Distribution Franchisee through MOU route in MSEDCL. At present 18 Nos. of DF are active and 23 Nos. of DF are inactive. When the matter is examined in detail regarding inactive status of some DF, it is noticed that these franchisee have executed DF agreement with MSEDCL but could not become operational due to technical difficulties involved in releasing connection in common buildings of IT & ITES Park.

In this context, some DF agencies have made representation requested to give multiple metering points for the connection in Distribution Franchisee area through MOU route.

In order to address the issue, all aspects and technical difficulties involved in release of connection with multiple metering arrangements have been examined in detail and it is decided as below:

**Background:**

In the existing Distribution Franchisee through MOU route, there are sub categories of IT-Park, SEZ, Multiple Building and IT Single Building. Under these sub categories, in one building multiple consumers are located on different floors. Similarly, their load is fed through different bus riser system which is the latest international practice also. In some cases part load is situated on different floor also. The bus riser system is mandatory to ensure uninterrupted and quality power supply with backups to the consumers as per international norms as prescribed under IEC 61439 -1 & 6; IEC 60529 and ID 2147 for IT & IT parks installations. In such situation single consumer need to be fed power from multiple sources (Different bus risers).

The existing provision regarding release of connection in one premise to a single consumer for same purpose is as below:

*MSEDCL Condition of Supply:*

*2.2.5 MSEDCL shall not permit any Applicant / Consumer to have two or more independent power supply connections for an identical purpose in one common premise.*

Therefore, as per the Conditions of Supply, it will not be possible to provide separate connection for sourcing of power from different bus risers. However, the issue needs to be resolved and inactive franchisees are to be made active.

The methodology mentioned below has been devised.

- 1) Multiple metering points will be provided to the consumers in Distribution Franchisee through MOU route area where vertical bus risers are provided. For measuring the energy at each input point, separate meter may be provided.
- 2) The nos. of meters shall be restricted to the nos. of bus risers. For example if there are four bus riser to the building then maximum nos. of meters that can be provided to a single consumer will be restricted to four only.
- 3) All meters shall be AMR compatible and shall use IS 15959:2011 (amended as on date) protocol for communicating with IT billing system of MSEDCL.
- 4) For billing parameter such as KWH, KVAH, RKVAH lag, RKVAH lead, KWMD, KVAMD, the readings of all meters will be added and single bill against unique consumer no. will be generated through MSEDCL IT system. IT shall incorporate necessary changes to this effect.
- 5) It is pertinent to mention here that the readings of MD (KW and KVA) will also be summed up to arrive at billing MD. An undertaking to this effect shall be taken from individual consumer for not rising any dispute of such billing method. The Developer/ DF Agency will also have to indemnify MSEDCL implicitly, on this issue.
- 6) While mapping of meter against consumer no. due care shall be taken to map all the meters with correct data to the unique consumer number.
- 7) Before generation of bill, it shall be ensured that data of all meters is received as per mapping; otherwise bill will not be generated.
- 8) In case of non-payment of bill, all meters against said consumer no. shall be disconnected.
- 9) The DF Agency shall take all necessary safety measures required for safe operations of supply from different bus risers.
- 10) The DF agency shall be responsible for obtaining all clearance from Government Authorities, for electrical installations.
- 11) The above mentioned methodology shall be applicable to MSEDCL consumers only.

**Use of Dual Source Meter:**

In case of failure of MSEDCL supply, the DF (Agencies) are demanding stand-by supply to the consumer through same bus risers. There is possibility that

they may not provide stand-by supply to all bus riser. In such condition need may arise to install Dual Source Meter to the consumers. The Dual Source meter records main (MSEDCL) consumption and stand-by consumption in different counting register which toggles on receipt of stimulus from generator supply. Hence, it is very important for proper counting, main supply and stand-by supply registers wiring of stimulus is properly insulated, protected and sealed to avoid misuse. It will be responsibility of concerned SE (TQA) to ensure that stimulus wiring is 100% full proof and it is not susceptible for mis-utilization (i.e. recording of MSEDCL consumption in stand-by counting register). The concern SE (TQA) shall give approval to wiring system within one month and after one month it shall be deemed to be approved. The necessary sealing shall be done to such arrangement and acknowledgement to that effect shall be obtained.

The other relevant conditions related to Dual Source Meter are as below:

1. All IT and ITES Parks and Distribution Franchises through MOU route having alternate supply source other than MSEDCL may install LT CT Operated Meters dual source meters as per approved specification of MSEDCL.
2. As and when MSEDCL approves the dual source meters of requisite specification, the same will be required to be replaced at the cost of IT and ITES Parks and Distribution Franchises through MOU route. An undertaking to that effect is to be obtained.
3. The Standby supply shall be used only in case of power failure/ interruption from MSEDCL. However, in case of disconnection by MSEDCL, the Standby supply shall not be provided/ used.

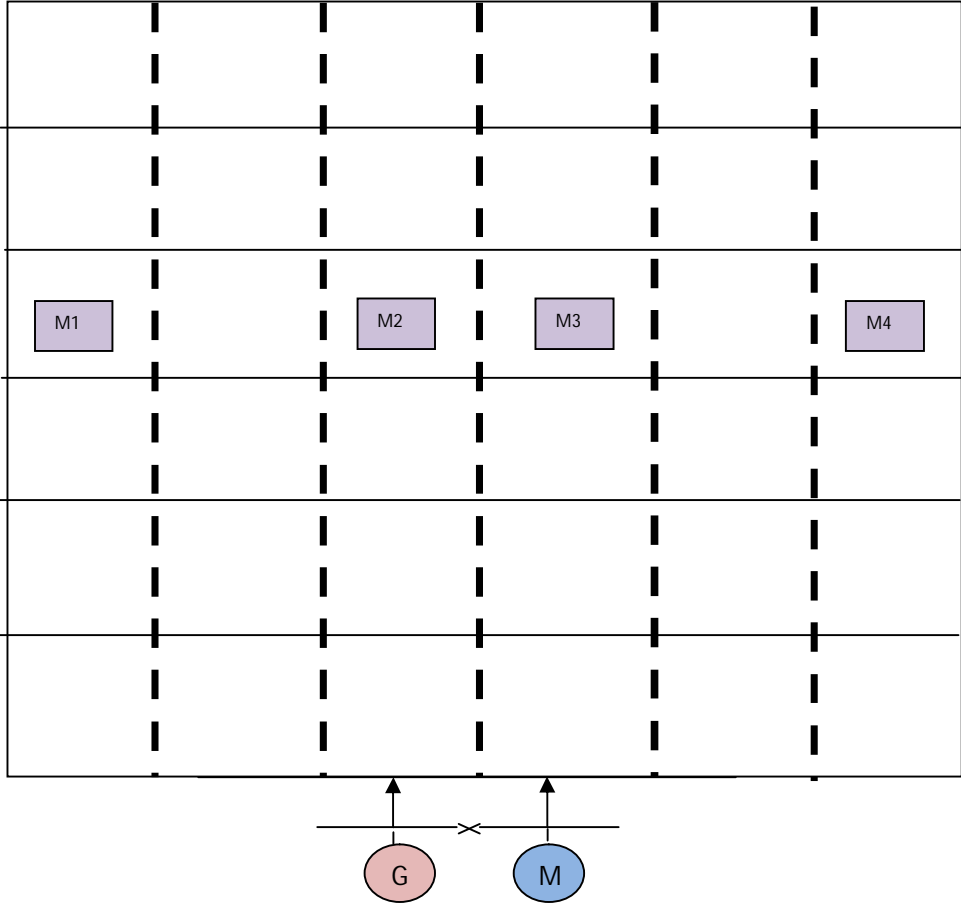
In the metering arrangement of DF through MoU route main meter and check meter is provided at the periphery of MSEDCL-DF supply .The monthly energy audit shall be calculated and it shall be ensured that losses doesn't exceed beyond permissible limit. Any abnormal loss need to be investigated in detail and consumption from MSEDCL source and generator source need to be thoroughly checked along with other routine checks. The losses beyond allowable Distribution Losses will be required to be made good at the rate of Commercial tariff and the same will be recovered from the monthly payments to the Distribution Franchisee.

The explanatory sample diagram is enclosed herewith for better understanding of concept of installation and billing. All the field officers are requested to take further necessary action accordingly.

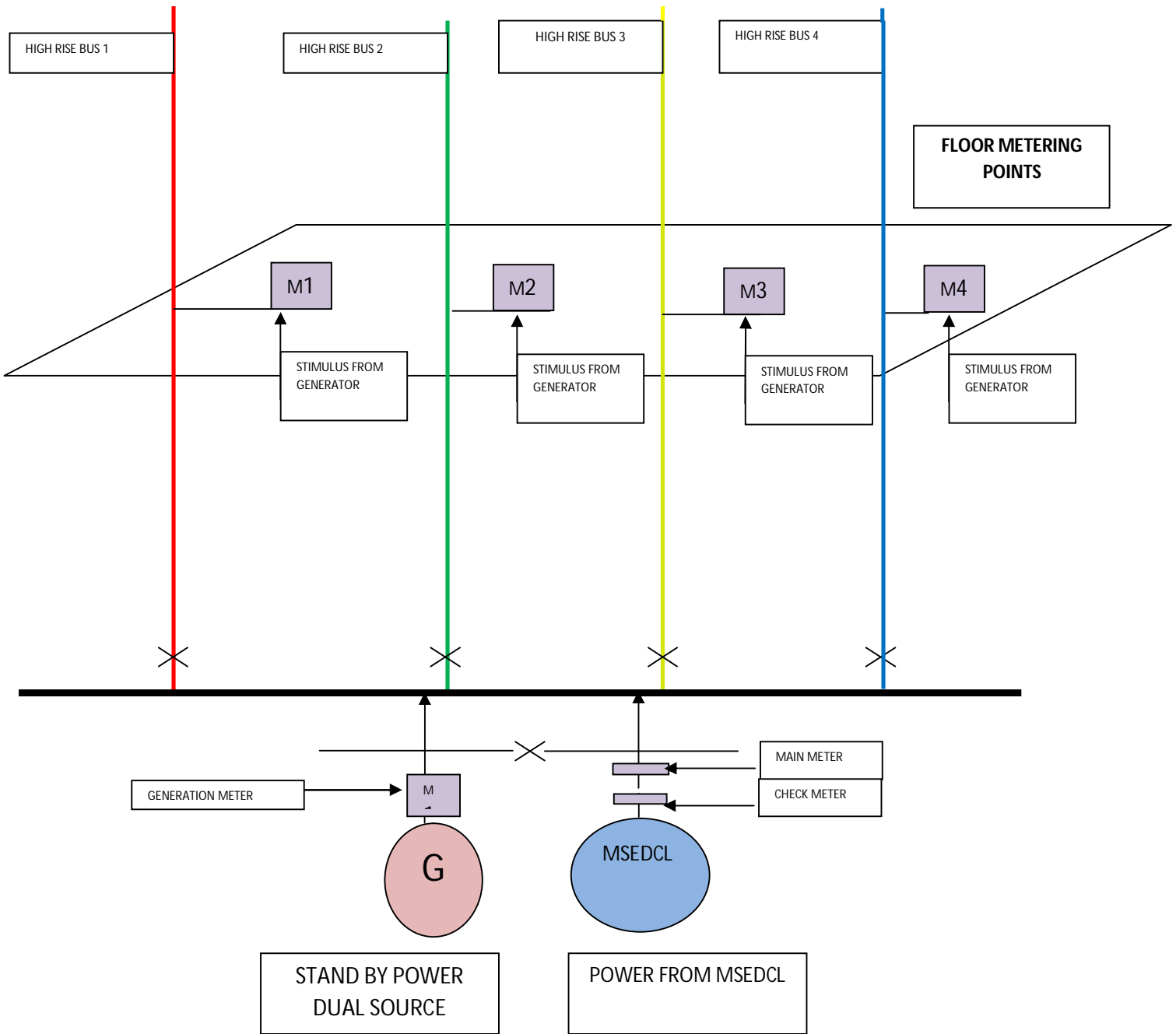
  
**Chief Engineer (Commercial)**

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# MULTIPLE METERING POINT IN HIGH-RISE BUILDING (VERTICAL BUS BAR)



# SKETCH :



**TOTAL CONSUMPTION FOR BILLING AGAINST UNIQUE CONSUMER =  
SUM OF CONSUMPTION & MD'S OF M1, M2, M3, M4**