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COMML.JDP/ 547

**JODHPUR VIDYUT VITRAN NIGAM LIMITED**

No.JdVVNL/MD/CE(HQ)/SE(RA&C)/JU/2011-12/D. 1220 Dt. 05.07.11

**ORDER**

**Sub: Prescribing norms for electrification of Colonies Housing Schemes developed by private builders/ Developers / Housing Societies and releasing permanent connections therein.**

In supersession to this office Order No. JdVVNL/MD/CE(HQ)/SE(RA&C)/ JU/2011-12/D. 321 Dt. 19.04.11(Comml.JDP/541), following revised norms are prescribed for electrification of colonies/housing schemes and releasing permanent connection therein:-

1. The load design criteria shall be 2KW per 1000Sq. feet of plot area for Domestic and 5 KW per 1000 Sq. feet of plot area for Non-domestic and 50% of the sum of the connected load of all the plots in the colony/housing schemes shall be taken as the designed load of colony. For converting KW in KVA, 0.9 PF shall be considered. The following design parameters shall be considered for preparation and approval of the electrification scheme of the colony:-
  - a. Provision of approximately 50% additional line DPs for creation of new 11/0.4 KV sub-station be kept for further expansions and location be identified accordingly at initial stage.
  - b. The capacity of the transformer, cables and allied equipments shall be worked out by considering 1.3 times the designed load.
  - c. Individual distribution transformer capacity shall not be more than 250 KVA.
  - d. Maximum length of each LT feeder shall not be more than 250 meters.
  - e. The designed load and electrification voltage level of multi-storied buildings shall be worked out in accordance with the relevant and prevalent orders.
2. All contiguous blocks of the colony shall be considered as a part of the colony for the purpose of computation of designed load. Piecemeal electrification of colonies is not allowed.
3. The supply voltage level as per designed demand worked out corresponding to designed load & power factor mentioned at point No.1, upto 1500 KVA shall be 11KV and for designed demand more than 1500KVA the supply voltage level shall be 33KV. For electrification at 33KV supply voltage level, a piece of land measuring 1000 square meter

for colonies having designed demand more than 1500KVA shall be made available by the developer/ colonizer/Urban Local Bodies free of cost for construction of 33KV/11KV sub-station. For making available land free of cost, the Developer/Colonizer shall be solely responsible. Similarly, in case if the aggregate designed demand of any colony is more than 15MVA, land measuring at least 5000 square meter shall be made available free of cost for construction of 132 KV Grid sub-station & 33/11KV sub-station.

4. The scheme for electrification keeping in view the designed demand and distribution network shall be adjudged for technical feasibility i.e. if it is feasible from the existing 33KV or 11KV line in the vicinity of the colony/housing scheme, the same shall be tapped by providing double pole structure with isolator/RMU. However, in case the scheme is not found technically feasible from the existing system, a separate 33KV or 11KV feeder shall be proposed from the nearby 33KV sub-station or 132 KV GSS(For working out technical feasibility, no diversity factor is to be taken in design demand).
5. The primary distribution system shall be laid with 11KV overhead line(s) or by underground cable of suitably capacity. 11/0.4KV sub-stations shall be erected pole mounted. For LT lines no bare conductor will be used, only 3-core 50 sq. mm/1-core 35 sq. mm AB cable or Insulated Rabbit conductor shall be used. For street light points separate AB cable shall be laid, if required on the same supports.
6. The cost of electrification (Lines/Sub-stations) of colony/area for supply voltage upto 33KV shall be borne by the Developers/ Colonizer/Housing Societies/plot holders. Cost of electrification shall not include cost of 132 KV works, if required for any scheme. The land required for construction of 33KV sub-station(s) as per item No.3 above shall be provided by the developer/Colonizer/Urban Local Bodies free of cost.
7. The Developers/Coloniser may opt and carry out electrification of the colony/area with the technical approval and under the supervision of Nigam. All material which is to be used by Developers/ Colonizer for electrification work shall be as per specification of Nigam and meeting CTL requirements. In such cases 15% supervision charges shall be recovered for overhead line works. If entire electrification of the colony is done by underground cabling then supervision charges shall be 5% as per order No. JdVVNL/CAO(A&R)/JU/S. Rules/ D.1433 dtd 23.02.10(Order-259).
8. Where developers have left & some connections have been released, in such cases, if No. of plot holders having electric connections are less than 50% of the total plots of the scheme, then the electrification scheme shall be prepared and its cost shall be worked out by considering the

entire plot area but less the cost of the infrastructure available in the scheme for the existing connections. The cost of electrification so worked out shall be recovered from the remaining plot holders on pro rata basis. Thus, the prospective consumer shall be given connection on depositing the pro rata cost of electrification of the scheme which shall be worked out on the basis of plot area of individual connection with respect to total plot area of the colony.

The cost of land shall be recovered or taken for calculation purpose against cost payable by the Nigam for acquiring such land from the local bodies. The cost of land so payable by the Nigam shall form part of the cost of electrification.

The cost of shifting / re-alignment of the existing power lines in the schemes area shall also be added to the cost of electrification.

(Total plot area is the sum of area of all individual plots in the colony. Area of roads, gardens will not be included in this area).

9. In case more than 50% plot holders in the scheme have been provided electric connection in colonies/housing schemes prior to issue of this Order, the balance connections may be released to applicants as per provisions of TCOS-2004(Amended up to date).
10. An additional electric connection of any category to the premises/plot already having electric connection, shall be released as per provisions of TCOS(amended up to date).
11. For the schemes/townships/colonies of mixed nature i.e. schemes having individual plots as well as multi-story buildings, the design load of the entire scheme shall be inclusive of the design load of all the multi-storied buildings/complexes & individual plot area worked out as per Sl.No.1 above and the scheme shall be prepared accordingly. Electrification of the large buildings in such schemes shall be allowed at the voltage applicable(11KV or 33KV) from the technically feasible network developed by the colonizer/developer for the entire scheme.

The above design criteria, provisions and procedure shall also be applicable to colonies/housing scheme developed by RHB/UITs/Development Authorities, etc. as well.

By order,

  
(D. C. BHURAT)

**CHIEF ENGINEER (HQ)  
JODHPUR DISCOM:JODHPUR**

Note: The order is also available on Jodhpur Discom's website [www.jdvvn1.com/www.rajenergy.com](http://www.jdvvn1.com/www.rajenergy.com)