

**JPR5-615**

JAIPUR VIDYUT VITRAN NIGAM LIMITED  
OFFICE OF THE SUPERINTENDING ENGINEER (COMML.)

No. JPD/SE(C)/C.I/F. 4(008)NE/D. 374

dated 24.3.2011

**ORDER**

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

In accordance with the decision taken DCF meeting held on 10.02.2011 following revised norms are prescribed for electrification of colonies/housing schemes and releasing connection therein :-

1. The load design criteria shall be 2 KW per 1000 Sq,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 along with other designed parameters in accordance with JPR5-162, 178, 186 and 195.
2. The supply voltage level as per designed load upto 1500 KVA shall be 11 KV and for more than 1500 KVA & up to 10 MVA shall be 33 KV. Connections of more than 10 MVA load shall be released on 132 KV supply. P.F. 0.9 shall be considered for the purpose of converting MW to MVA.
3. The primary distribution system shall be laid with 11 KV overhead line(s) or by underground cable of suitable capacity 11/0.4 KV substations shall be erected pole mounted. For LT lines no bare conductor will be used and instead 3 core 50 sqmm/ 1-core 35 sqmm. 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.
4. The scheme for electrification keeping in view the designed load and distribution network shall be adjudged for technical feasibility i.e. if it is feasible from the existing 11 KV or 33 KV 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, new 11 KV line(s) / 33 KV line(s) shall be drawn from the nearest 33 KV Sub-station or 132 KV GSS so as

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to make the scheme technically feasible (keeping no diversity of load i.e. with unity Diversity factor).

5. In order to achieve the technical viability, if 33/11 KV S/S is required to be constructed or designed load is more than 5000 KVA land measuring upto 1000 Sq meter at the load centre, shall be made available to the Discom in the colony/housing scheme free of cost by the developer. If the designed load required, construction of more 33/11 KV S/S in the scheme, the land for the construction of the additional Sub-station(s) shall also be provided by the developers free of cost. The circle SE shall indicate such requirement while issuing technical sanction of the electrification of scheme. If the designed load works out to more than 10 MVA additional land measuring at least 3000 sq. meter for construction of another 33 KV sub station /132 KV GSS will have to be made available by the developer/builder.

6. The cost of 33 KV network (line and Sub-station) shall be borne by the Nigam while the cost of 11 KV & LT network including cost of distribution transformers and sub station structure shall be borne by the developers.

7. The work of 33 KV line and sub station shall be executed by the Nigam while work of 11 KV/LT lines land work of 11 KV substations excluding installation of transformers shall be done by the developer. In this case 15% supervision charges shall be recovered for overhead work and 5% supervision charges for underground cabling work by the Nigam.

8. the developer shall have to deposit the cost of 11/0.4 KV transformers with the Nigam at Store issue rate plus usual cover head charges. These transformers will be installed by the Nigam as per requirement.

9. In cases where the builders /developers are not coming forward to get the colonies/housing schemes electrified, the electrification shall be done by the Discom by collecting the prorata cost of the electrification works for which there shall be no restriction of number of plots/load of the entire colony/housing scheme area. Thus, the intending consumer shall be given connection on depositing the prorata cost which shall be worked out on the basis of plot area of individual connection with respect to total plot area of the colony say for example there is a colony with total plot area of 20000 Sqft the estimated total cost of electrification ( 11 KV line ,11/0.4 KV substation and LT line) is Rs. 5 lac. then the prorata cost recoverable from inhabitant would be computed as  $500000 / 20000 = \text{Rs. } 25 \text{ per sq ft.}$

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

10. In case some connections have already been provided in colonies/housing schemes prior to issue of order JPR-5-500 and electrification is yet to be done, then balance connections shall be released on collecting prorata cost of actual

expenditure incurred on electrification of the balance scheme (i.e excluding area/plots already electrified). In this case, if 33 KV Sub Station is required to be created but land is not available free of cost the same as per market value or actual expenditure incurred there on, shall be added in the cost of electrification (excluding cost of construction of 33/11 KV sub station).

11. Peace-meal electrification of colony is not allowed. Entire area of the colony ( or remaining area incase some connections have already been released). As approved by the competent sanctioning authority shall be considered while preparing estimate for electrification of the colony and estimate so prepared and approved shall be considered for computing pro-rata cost chargeable from individual applicants.

12. If any building complex/multi-storied building, large building built/developed in colony/housing scheme area, requires its connection/electrification the same shall be dealt with separately as if it is not a part of the scheme and shall be electrified as per provisions applicable in Discoms for electrification of building complex/multi-storied building / large building. However for the purpose of calculation of load for the purpose of electrification it will be considered as part of the colony.

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

  
(R.K.Dixit)  
Superintending Engineer (Comml.)

Copy submitted/ forwarded to the following for information and necessary action:-

1. The Director (Finance), JVVNL, Jaipur (with 45 spare copies).
2. The Director (Technical), JVVNL, Jaipur.
3. The Chief Engineer (O&M)/(Comml.). JVVNL, Jaipur.
4. The Dy. Chief Engineer (MM)/(M&P &CRP), JVVNL, Jaipur.
5. The Addl. Supdt. of Police (Vigl.), JVVNL, Jaipur. (with 30 spare copies)
6. The Chief Personnel Officer, JVVNL, Jaipur.
7. The Chief Accounts Officer, JVVNL, Jaipur.
8. The Dy. Chief Engineer / Supdtg. Engineer (Power), RIICO, Jaipur.
9. The Supdtg. Engineer ( ), JVVNL, \_\_\_\_\_.
10. The Secretary, JVVNL, Jaipur.
11. The Sr. AO/AO/AAO ( ), JVVNL, Jaipur.
12. The Executive Engineer ( ), JVVNL, \_\_\_\_\_.
13. The Executive Engineer ( ), JVVNL, \_\_\_\_\_, alongwith 10 spare copies for sending the same upto AENs/JENs/AROs/Accountants level under his jurisdiction.
14. The Executive Engineer (Elect.), J.D.A./R.H.B/RIICO/ Nagar Nigam, Jaipur.
15. The Company Secretary, JVVNL/RRVPNL, Jaipur.
16. The TA/PA to CMD, RVPN / JVVNL, Jaipur
17. PA to MD, Jodhpur/Ajmer Discom, Jodhpur/Ajmer.
18. P.S. to Hon'ble Energy Minister, Rajasthan, Jaipur.
19. P.S. to Secretary (Energy), Govt. of Rajasthan, Jaipur.
20. The Public Relations Officer, JVVNL, Jaipur.
21. Sr. Accounts Officer (FP-5), A.G. Audit, Shed No.14/1 Jaipur.
22. Sr. Accounts Officer (CAW-III), A.G. Audit, Shed No.4/1, Jaipur.
23. The Asstt. Engineer ( ), JVVNL, \_\_\_\_\_.
24. The Electricity Ombudsman, Vidyut Vinlyamak Ayog Bhawan, Sahkar Marg, Jaipur.
- 25. The Supdtg. Engineer (IT), Jaipur Discom, Jaipur for putting up the order on the website of Discom.
26. \_\_\_\_\_

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Superintending Engineer (Comml.)