

Government of Telangana
Office of the Engineer-in-Chief, RWS&S, Hyderabad
Circular.Memo.No.AEE.III/DEE-II(N)/Intragrid/FCV/2016, Dt.14.09.2016

Sub: RWS&S & TDWSP – Telangana State – Intra village network – Fixing of Flow control valve in place of ferrule for households service connections – instructions issued – Regarding.

Ref:1) Lr.No.AEEII/DEE(plg)/TDWSP/CEs Committee/FCV/2016, Dt.06.04.2016 of the Chief Engineer, TDWSP-II, Hyderabad.

2) CEs committee deliberations on 06.04.2016, 12.04.2016 and 08.06.2016.

The immediate personal attention of the Chief Engineers, TDWSP and RWS&S, Hyderabad, all the SEs & EEs, RWS&S & TDWSP of Telangana State are invited to the references cited and they are informed that the Flow control valves have been fixed in Datarpally village of Gajwel mandal in Medak District on experimental basis for viability, outcome and its feasibility to replicate in all habitations in entire state.

Further, the CE's committee has discussed on Dt 08.06.2016 for FCV feasibilities and opined to fix the flow control valve in place of ferrule at house hold service connections for restricted out flows of 5 LPM by maintaining minimum residual pressure heads of 6m and the intra village distribution system should be checked for residual heads with 5 lpm discharges.

The following are the advantages for Flow control valve's (FCV) functioning.

- 1) The ball Inside FCV will act as non-return valve and prevents house-holds water contaminations into the distribution main pipe lines. Hence, fixing of FCV is mandatory for every house-hold connection.
- 2) By using FCV, the stored water of the households at tapping points will not get empty by return flow prevention.
- 3) FCV will control the excess flows than the design discharge ie., 5 Lpm at 5mts head loss. Hence, the intra village distribution system shall be designed for 1.5 hours of peak design discharge. Thus the minimum residual pressures will be maintained in the entire distribution system.

In view of the above, all the CEs, SEs, & EEs RWS&S & TDWSP are instructed to provide the FCV at each and every house hold service connections as mandatory in place of ferrule for maintaining minimum residual pressure heads of 6m .For the intra village distribution, the hydraulic statements should be checked for minimum residual heads at peak discharges for 1.5 hours supply to meet total daily demands. The CEs, Grid, Hyd are advised to prepare and approve the sub estimates within the provisions.

Sd/-
Engineer-in-chief,
RWS&S, Hyderabad

To,
The Chief Engineers, TDWSP-I,II,III & RWS&S (N), Hyderabad.
All the SEs & EEs, RWS&S and TDWSP, Telangana State.
Copy submitted to the Spl. Chief Secretary to Government, PR & RD and RWS&S Hyd for favour of information.
Copy submitted to the Technical advisor, RWS&S, Hyderabad for favour of information.
Copy to all the Consultants, TDWSP, Hyderabad for information.
Copy to the General Manager, WAPCOS, Hyderabad for information.

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K. Anur
14/9/16
Deputy Executive Engineer-2(N)

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14/9/16