OFFICE OF THE ENGINEER-IN-CHIEF,
WATER RESOURCES DEPARTMENT,
JAL SANSADHAN BHAWAN, TULSINAGAR, BHOPAL (M.P.)

Bhopal, Dated 8 / 12/2016

To,
1. All Chief Engineers, Water Resources Department, M.P.
2. Web Manager, Bhopal

Sub: Design of Pressurized Micro-Irrigation System (PMIS).

Ref: Executive directions issued in V.C. of dated 28.06.2016.

In the above cited subject on the recommendation of BODHI, attention of all the field Engineers are invited on directions issued on dated 28.06.2016 video conference, wherein it was directed to have exit gradient of 10 m (1 Bar) at the outlet of farmer's field with a view to have a reduction in overall cost outlay and consequently the O&M and electricity charges.

These orders were based on field experiences of other project operation and study of technical details of sprinkler system available in India at the moment. Its adaptability by the inexperienced farmers and non-availability of spares and service for sprinklers, designed for running at 1 Bar pressure may be problematic. It is therefore directed that implementation of these direction be deferred till further orders and all PMIS be designed with exit gradient of 20 m at outlet, unless otherwise specifically directed by this office.

For crop water requirement, average of three quarterly requirements shall be worked out and maximum demand shall be considered for design purpose taking into account minimum 20% of consumptive ground water use. For rabi predominant areas CWR for design purpose should not be less than 0.35 ltr/hec unless otherwise required in specific cases. In Rabi predominant areas the maximum area under wheat cultivation should be restricted to 85-90% of the CCA.

These directions will be applicable to all the PMIS where tenders are to be invited. If required the field formation may submit revised proposal for the schemes already cleared with 10 m exit gradient along with necessary changes in design, power consumption statistics, cost estimation etc to competent authority seeking approval on revised proposal.

(M.G. Choubey)
Engineer-in-Chief,
Water Resources Deptt., Bhopal
Endt. No. 3441200/60/2016

Bhopal Dated December 2016

1. The Principal Secretary, Govt. of M.P. Water Resources Department, Bhopal for kind information please.

2. The Chief Engineer, BODHI, Water Resources Department, Bhopal for information and needful action in the matter.

(M.G. Choubey)
Engineer-in-Chief,
Water Resources Deptt., Bhopal