

GOVERNMENT OF TELANGANA
PUBLIC HEALTH & MUNICIPAL ENGINEERING DEPARTMENT

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Lr.No.5/T1/Telangana Water Grid/2014-15

Dated:15-03-2017.

From
R.Dhan Singh,
M.E
Engineer-in-Chief,
Public Health,
AC Guards, Hyderabad.

To
All The Commissioners of ULBs

Sir,

Sub: - PH & ME Dept. - Ensure safe and required water supply in the Municipalities – Certain instructions and guidelines – Issued – Reg.

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Since the summer is severe the following guidelines are herewith communicated for the knowledge of Municipal Commissioners, Municipal Engineers., M.A.Es and M.A.Es for strict compliance to minimize the drinking water supply problem during this summer.

I. Protecting of the Sources :

1. In case of surface drawals from rivers or vagu etc., required lead channels to be excavated to ensure that required raw-water reaches the intake wells. The river courses in summer need to be diverted towards intake structures by forming temporary bunds etc.
2. To closely monitor water levels in the summer storage tanks and ensure sufficient storage for the summer supply till fresh flows are received. Close coordination is maintained with I & CAD Department to ensure timely release of water in the canals.
3. Curtail and monitor raw water drawls at sources in case of underground tappings such as infiltration wells and galleries to ensure that summer water levels do not fall below the command levels.
4. In case of bore well sources necessary deepening of bore wells and cleaning the bore wells as necessary should be done in advance. If the summer water level is anticipated to fall below the pumps drawl levels, deep bore pumps need be provided or the suction pipe of the existing pumps need to be extended.
5. Constant coordination to be maintained with the concerned TRANSCO office to maintain continuous power supply to the water supply sources. If necessary advance action be taken to keep required capacity generators at all the pumping stations to ensure uninterrupted pumping.
6. All the sources should be guarded from any possible contamination due to sewage or drainage water entering into the drinking water sources. Proper watch and ward need to be maintained at all the summer storage tanks and other water supply sources to avoid contamination of water by bathing or animal washings and open defecation nearby etc.

II. Precautions to be taken regarding distribution system :

1. Identification of leaks in water supply pipe lines and arresting the same to avoid wastage of drinking water.
2. Scouring the water supply lines periodically.
3. Cleaning all the storage reservoirs periodically.
4. Checking illegal tappings of the house service connections i.e., through booster pumps if any to avoid illegal tapping.
5. Ensure proper chlorination in the distribution systems.
6. Close all pit taps to ensure proper distribution of water with required pressure and to avoid water contamination.
7. All the bore wells within the service area need to be painted with code numbers and condition of hand pumps and power pumps need to be closely watched and monitored. A record of repairs to the pumps done need to be maintained and checked by the concerned M.A.E/ M.A.E.E. to ensure that timely immediate repairs are carried out to the hand pumps or power bores as the case may be. Sufficient spare parts required for repairing the hand pumps should be procured and kept ready well in advance.

All the platforms of bore wells, open wells and public stand posts should be maintained properly to provide good hygienic conditions duly providing necessary disposal arrangements of used water to the nearest storm water drain. All the open wells which are likely to be used by the public for drinking water purposes should be properly disinfected. The quality of water should be frequently checked at any time if the quality of water is found to be not fit for drinking, necessary boards should be displayed for the knowledge of the public that the water should not be used for drinking purposes. Similar action should be taken in case of all the bore wells also.

III CRITICAL & PROBLEMATIC AREAS:

- i) A Task Team of officers consisting of the Engineers from Public Health Department Municipal Officers looking after sanitation and Water Supply and other Public Health officers shall be constituted. Team shall identify the critical and problematic areas in the town and shall furnish inspection report every day and the Municipal Commissioner shall indicate the follow up action taken.
- ii) They shall check residual Chlorine in those problematic areas on daily basis.
- iii) They should conduct H₂S strip test / bacteriological examination in these areas frequently and shall be documented.
 - One sample shall invariably be collected at source after post chlorination at treatment plant.
 - Samples at the rate of 1% of HSC's and 2% of PSP's to be collected in a cycle and analyzed for residual chlorine. In any case the total No. of samples to be collected for each Municipality shall not be less than one sample for every 5,000 population per day.
 - The residual chlorine shall not be less than 0.2 P.P.M. If the same is less than 0.2 P.P.M, reasons for less chlorine content shall be immediately identified, examined and corrective measures shall be taken immediately.

- After rectifying the cause of depletion in the residual chlorine, the water samples need to be collected again and analyzed for residual chlorine and bacteriological analysis by the nearest Indian Preventive Medicine Laboratory duly conducting H₂S Strip test to confirm whether it is wholesome or unwholesome. Accordingly corrective measures for rectification of water supply distribution need to be repeated for ascertaining the wholesomeness/portability of water.

IV. Transportation Water to Unserved/ ill served Areas:

1. Required water tankers mounted on Lorries need to be deployed to ensure that safe drinking water is transported and made available in the localities which are ill-served or unserved area.
2. The water tankers should be leak proof and well painted and disinfected regularly to avoid any possibility of wastage of water during transportation and also to avoid possible contamination.

The receipt of this circular letter may please be acknowledged.

Yours faithfully
Sd/-
ENGINEER-IN- CHIEF (PH)

Copy submitted to the Secretary to Government, Municipal Administration & Urban Development Department, Hyderabad.

Copy to the Director Municipal Administration, Hyderabad.

Copy to the Engineer-in- Chief (PH) table.

Copy to the Superintending Engineers(PH), Warangal circle and West circle Hyderabad for information and necessary action.

Copy to the Executive Engineers (PH) Nalgonda/Nizamabad/Hyderabad/Karimnagar/Khammam/Adilabad/Warangal/ Medak and Mahabubnagar Divisions for information and necessary action.

//ATTESTED//

EXECUTIVE ENGINEER(PH)