



# KANCHRAPARA MUNICIPALITY

## ACTION PLAN TO REDUCE WATER LOSSES BY 20% FOR THE YEAR 2016-2017

Decision taken in BOC meeting dated on 25.02.2016.

Atal Mission for Rejuvenation and Urban Transformation (AMRUT) has been launched in Kanchrapara Municipal area in the year 2015. As per AMRUT guideline, now it is needed to make a action plan to reduce Water losses to less than 20% at our ULB area. Water loss can be either: (a) the apparent losses due to meter inaccuracies or (b) real losses due to leakage at water service lines, breaks or leakage on mains or at storage facilities.

**Existing Situation:** The total population of Kanchrapara Municipality is 129576 with total household 27976 (as per census 2011). We have provided water tap connection for 11813 households (approx). Per capita supply of water is 75 LPCD. There is no UGR in Kanchrapara Municipality, 9 of OHRs are present. If any leak is happened in consumer side, it is resolved within 24 hours. It is also noted that metering system at house or any commercial holding along with street tap is not implemented as yet in the Kanchrapara Municipal area.

**Causes of Water losses:** At present the actual water losses at our Kanchrapara ULB area cannot be calculated as water meter are not installed in distribution network. However based upon the experience, it is assumed that approx 20% is lost in distribution network through leakages, fire hydrants, overflow of the street tap, low level of awareness of the people etc. Now the causes of water losses need to be investigated in depth at the stage of implementing the action plan. We have developed a action plan and Municipality should consider all of the following programs to help in the reduction of less than 20% water loss in our distribution system. Through these plan, Municipality will not only increase revenues, but will also benefit through the extension of sustainable water supplies, improved system, and improved environmental stewardship.

### Action Plan:

OBJECTIVES	PROPOSED ACTION	TARGET YEAR	IMPLEM ENTING AUTHORITY	REMARKS
Reduce Water losses to less than 20% at Kanchrapara	Advocacy on the issue with different stakeholders like MLA, all councilors, Ward committee members, Senior Citizens & local respective persons	2016-2017	Kanchrapara Municipality	
	Capacity building for departmental staff about the issue	2016-2017		
	<b>Awareness generation regarding misuse of Water through IEC for community people</b>	<b>2016-2021</b>		<b>8% loss of water will be reduced in the year 2016-17 through</b>





			this process
Leak detection and repair	2016-2021		Through leak detection & repair, 5% loss will be reduced in the year 2016-17
Installation of Check valves in all pipe lines to maintain proper distribution of water	2016-2021		Through this work 7% loss will be reduced in the year 2016-17
Provide new water connection to the rest of the beneficiaries	2016-2021		
Installation of UGR, OHR & Water level indicator	2017-2021		
Installation of Metering system to all holdings & all street tap	2017-2021		
Implementation of Water Accounting system	2019-2021		
Water Audit	2019-2021		

Through the above mentioned 3 no of activities (mentioned in the remarks column), 20% loss will be reduced in the year 2016-2017.

Details of the activities:

- **Advocacy on the issue with different stakeholders like MLA, all councilors, Ward committee members, Senior Citizens & local respective persons:** Through this work the issue will be discussed with all stakeholders . National level water policy and ULB level data will be discussed. A ULB level action plan on Water losses will be finalized in this meeting.
- **Capacity building for departmental staff about the issue:** Issue will be discussed thoroughly and action plan & implementation process will be also discussed.
- **Awareness generation regarding misuse of Water through IEC for community people:** The details of Water loss through car washing, gardening, overflow of water will be discussed through Information Education and communication (IEC) like miking, audio visual media, leaflet distribution etc for not wasting precious water particularly to domestic users.





**Leak detection and repair:** Leakage detection will be addressed and repaired within 24 hours by ULB.

**Installation of Check valves in all pipe lines to maintain proper distribution of water:**

Installation of check valve in all pipelines will be done by the ULB to avoid unnecessary overflow of water. In the Water mains, a number of check valves are being maintained from which water comes out at the time of high pressure in the pipeline.

- **Provide new water connection to the rest of the beneficiaries:** All beneficiary residing at Kanchrapara ULB area will be benefited to entertain the water connection. They will be aware about the issue of water losses.
- **Installation of UGR,OHR & water level indicator:** At first Under Ground Reservoir and Overhead reservoir will be constructed. After that water level indicator will be installed at water storage reservoir linked with pump operation at different places of the ULB for immediate stoppage of water losses after water is stored up to full capacity of reservoirs constructed.
- **Installation of Metering system to all holdings and all street tap:** Water meter will be installed for assessing the water loss and adoption of water loss reduction measures. Through this process, illegal or unregistered connections must be eliminated and installation of meters at unmetered connections should be considered a priority. Meter testing should be conducted to determine the accuracy of metering systems and meter inaccuracies should be resolved through calibration, repair or replacement. Additionally upgrades to newer metering technologies should be considered for ease of detecting necessary repairs and changes in water use patterns and for ease of gathering metered data.
- **Implementation of Water Accounting system:** A water accounting system will be implemented as a loss reduction strategy. Water accounting is to be conducted in order to track water throughout the system and identify "Unaccounted flow of water."
- **Water Audit:** A comprehensive water audit will be conducted to determine the amount of water loss from a distribution system due to leakage, storage overflow, meter malfunctions and theft. In the report of such water audit the cost associated with these losses to the water supply system will be included. While conducting water Audit, the factors like Water losses through improper management of reservoir and tank level and overflows, which usually occur at night when pressure conditions are at their highest and may go unnoticed or are deemed insignificant, have also to be taken into consideration.

*Bany*  
Chairman 02/6/16

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