

**Extracts of the minutes of the meeting of the Chairman in Council held on 02.03.2016 at 3:00 PM
in the Office Chamber of Chairman, Habra Municipality**

Members Present:

১. শ্রী নীলিমেশ দাস, পৌরপ্রধান
২. শ্রীমতি রাখী দাস, উপ-পৌরপ্রধান
৩. শ্রী তারক নাথ দাস, সি-আই-সি মেম্বর
৪. শ্রীমতি নন্দা চক্রবর্তী, সি-আই-সি মেম্বর
৫. শ্রীমতি রুমা চ্যাটার্জী, সি-আই-সি মেম্বর

অদ্যকার চেয়ারম্যান ইন কাউন্সিল এর সভায় সভাপতিত্ব করেন পৌরপ্রধান শ্রী নীলিমেশ দাস মহাশয়।

পৌর বিষয়ক দফতরের নির্দেশিকা নং 93/MA/C-4/3R-1/2016 তারিখ ২৩-০২-২০১৬ ইং অনুযায়ী ২০১৬-১৭ সালে পৌর এলাকার “জলের অপচয় হ্রাস পরিকল্পনা” রূপায়নের বিষয়ে বিষদ আলোচনা করা হয়।

এই মর্মে সিদ্ধান্ত গৃহীত হয় যে, AMRUT মিশনের নির্দেশিকা অনুযায়ী পৌর এলাকার সরবরাহকৃত পরিশ্রুত জলের অপচয় অন্ততঃ ২০ শতাংশের নিচে রাখার লক্ষ্যে “জলের অপচয় হ্রাস পরিকল্পনা” তৈরী করা হবে।

এই সভায় সর্বসম্মতভাবে সিদ্ধান্ত গ্রহন করা হয় যে, ২০১৬-১৭ সালের Reforms Agenda অর্জন করার উদ্দেশ্যে পৌর বিষয়ক দফতরের প্রেরিত নির্দেশিকা অনুসরণ করা হবে।

স্বাঃ-
সভাপতি
০২-০৩-১৬

অবিকল নকল-

পৌরপ্রধান
হাবড়া পৌরসভা

CHAIRMAN
HABRA MUNICIPALITY



WATER LOSS REDUCTION PLAN

Water Loss:

There are two types of water losses, real and apparent. Real water loss includes water lost through leakage in distribution systems, service connections, and storage tanks (including overflow). Apparent loss includes meter and record inaccuracies and unauthorized water uses such as theft or unauthorized connections.

Water loss most commonly occurs due to leakage caused by a variety of factors, including:

- Corrosion
- Excess pressure
- Temperature variations
- Lack of regular maintenance
- Excessive traffic loading
- Poor design/installation
- Pressure transients/fluctuations

Water Loss Reduction Plan:

A water loss reduction plan is a plan for reducing water losses and usually targets the losses identified by an audit (or several audits). Once potential options are developed to reduce water loss, cost benefit analyses should be performed to choose the best options for the system. The finalized plan must outline the measures that will be taken to further identify and reduce both real and apparent water losses and include an implementation schedule. The goal in implementing a loss reduction plan is to reduce the system's water losses as much as possible.

Elements of a water loss reduction plan typically include:

- The results of one or several recent water audits
- A plan for improved water accounting
- A plan for improved metering
- A plan for improved loss control
- A plan for improved pressure management
- A plan for improved overflow prevention
- A plan for improved consumer education
- An implementation schedule

Corrective measures to be adhered for addressing real water losses include the following:

- Leak detection
- Timely response to visible maintenance issues
- Pressure management
- Replacement or repair of service connections and water mains
- Corrosion control
- Storage level (overflow) control

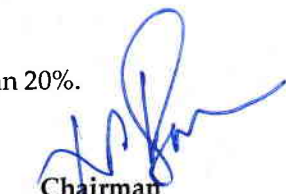
Corrective measures to be adhered for addressing apparent water losses include the following:

- Testing of production and sales meters
- Re-specifying, re-sizing and replacement of meters
- Improvements to meter reading methods
- Billing improvements
- Identification of unauthorized connections

The above mentioned steps will be adhered for reducing the water losses to less than 20%.


Executive Officer
Habra Municipality




Chairman
Habra Municipality

NAME OF THE ULB: HABRA MUNICIPALITY

Action Plan to reduce water losses to less than 20%

(From 2015-2020)
(Website Edition)

Sl. No.	Basic Information on water supply	Quantity	Unit	
A	Total area of the ULB (IN Sq.KM.):-	21.80	Sq.Km	
B	Population of the ULB:- (as on 2011)	1,47,221.00	Nos.	
C	Water demand (In Litre/Day):-	214,10,460.00	Lit.	
D	Water generated (In Litre/Day):-	29,44,420.00	Lit.	
E	Total Water generated (In Litre/Day):-	32,38,862.00	Lit.	
F	Water Supplied in Litre/Day :-	23,80,500.00	Lit.	
	1. Domestic Use (Litre/Day):-	21,42,450.00	Lit.	
	2. Industrial Use (Litre/Day):-	-	Lit.	
	3. Commercial Use (Litre/Day):-	-	Lit.	
	4. Social Use (Litre/Day):-	2,38,050.00	Lit.	
G	Volume of water losses (Quantity of Water produced less Quantity of water delivered to users) in Litre:-	8,58,362.00	Lit.	
H	Percentage of water losses per day :-	36.06	%	
I	Benchmark i.e. 20% (Target of Savings in Water Use & Supply)	6,47,772.40	Lit.	
J	Water loss to be reduced per day	2,10,589.60	Lit.	
Sl. No.	List of potential corrective measures to reduce water losses in ULB area	Volume of water losses expected to be reduced in Lit.	Reduction of water losses expected (%)	Year of Implementation
I	II	III	IV	V
1	Repairing of Major leakages or water losses area in the city 1. Pump House 2. Pumps and Valves 3. Storage reservoirs	52,647.40	25	
2	Repairing and Maintenance of Distribution System 1. Leak Detection 2. Timely response to visible maintenance issues 3. Development of system zones 4. Release Valves & Wash Out Valves 5. Replacement or repair of service connections and water mains 6. Corrosion Control	52,647.40	25	
3	Monitoring of Metering Systems 1. Identification and Reduction of unauthorised Connections 2. Prevention of Water losses in Street Taps 3. Installation of new Meters at consumer level 4. Testing of production and sales meters 5. Re-specifying, re-sizing and replacement of meters 6. Improvements to meter reading methods 7. Billing improvements	52,647.40	25	
4	Installation of Automatic shut-off valves for automatic closure of storage tanks in 1. Individual Households 2. Educational Institutions 3. Industrial Areas 4. Commercial Areas (Hotel, Restaurants etc) 5. Social Areas (Hospital, Bus Stop etc.)	42,117.92	20	
5	Consumer Education 1. Adv consumers by producing understandable and informative water bill 2. Plumbing repairs and replacements 3. Importance of water conservation	10,529.48	5	
Total:-		2,10,589.60	100	

Mr. Roy Ghatak
Executive Officer
Habra Municipality



[Signature]
Chairperson
Habra Municipality