

Minutes of the Meeting held in BNRI URBANA on 15/07/2016 at 10.30 A.M

MEMBER PRESENT:

Flat Owners' Water Committee	BNRI
1. Mr. Meelan Gupta	1. Mr. Abhijit Bose.
2. Mr. P. N. Ojha	2. Pradeep Kumar Chakravarti.
3. Mr. Ranjit Chakravorti	3. Partha Routh Ray.
4. Mr. Debapriya Biswas.	4. Amrish.

1. Purpose of the meeting was explained which is to understand various details of Water Treatment Plant (WTP) in URBANA and ensure that water quality is up to the required standard.
2. Mr. Pradeep Kr. Chakravarti, BNRI Water Consultant, briefly explained the concept and design of the WTP and also furnished a line diagram of the process. He informed that ION Exchange has supplied the plant based on his design. The WTP broadly consists of four bore well pumps, raw water tank followed by Oxidation (capacity: 150 M<sup>3</sup> / hr.), two numbers softeners (capacity: 75M / hour each) and Brine tank for regeneration.
3. BNRI had earlier furnished the analysis of the raw water and filtered water. It was pointed out by Mr. P. N. Ojha & Mr. Ranjit Chakravorti that some of the parameters especially TDS is on the higher side. Mr. P. K. Chakravorti responded that with underground bore well, water TDS is generally on the higher side but it is within the acceptable limited. He further informed that in course of next 3- 4 years, KMC water will be available in the complex and then the quality will be better.
4. On asking whether Filter / RO unit is required in individual apartments, Mr. P. K. Chakravorti informed and confirmed that it is up to individual owners, but the water quality from WTP is of drinking quality.
5. As detailed information of WTP was not provided by BNRI, it was decided that the following documents / details would be made available to flat owners at the earliest so that the entire process could be technically understood and further discussion can take place.
  - i) Complete plant specification with capacities and make of Vessels / Tanks, Pumps / Blowers, Flow rate etc, resin & its make up etc.
  - ii) Detailed drawing (PID) and Flow Diagram of WTP with specification of each component.
  - iii) Process and operation manual.
  - iv) Cost details including cost of treatment, maintenance etc.
  - v) What is the sludge generation expected in STP proposed disposal system, recycle water use etc.
  - vi) Details of filtering system for Swimming Pool with flow chart, capacity and make of components.

- viii) The design consideration for water flow rate for the following usages:-
- a) Resident consumption including Kitchen ( number of flats x no of occupants considered/ flat x water consumption considered/ person).
  - b) Water consumption considered for car wash.
  - c) Consumption for Swimming pool.
  - d) Consumption for gardening.
  - e) Consumption for Cleaning of common areas.
  - f) Consumption for the artificial Rivulet.
  - g) Consumption for Club facilities including Restaurant.
  - h) Consumption for Community halls.
  - i) Any other
  - j) Consumption by the maintenance and other staff members including security personnel.
  - k) Details of Rain harvesting system.
6. It was agreed to collect samples of raw water and treated water and get it analyzed from other independent laboratory.
7. After the meeting, participants visited the WTP and inspected the plant. Following are our observations:-
- i) The operation and maintenance of present system seemed to be poor with very dirty Brine tanks as same were not cleaned or maintained for long.
  - ii) How many trained manpower of this system are there at present so that regeneration and back wash activities are carried out in proper fashion.
  - iii) What is the present Regeneration and back wash frequency.
  - iv) The overall operation of the plant and the upkeepment of plant area looked to be below par.