

CONTENTS OF THE WATER AUDIT REPORT

EXECUTIVE SUMMARY

This section includes the brief details about the manufacturing process, quantum of water used and treated in the plant. Focus should be on improving water usage efficiency and identifying water Conservation opportunities. The field study and data collection for the said water audit and discusses the water balance and various water saving options derived on the basis of observations made, data collected and their analysis and summary of Water Audit findings.

1. INTRODUCTION

This section deals with brief about plant, manufacturing process, process flow diagram & initiatives taken by the industry.

2. SCOPE OFWORK

The main objective of the study is to identify the water uses & water saving opportunities. Scope of work of the study includes the following:

- Water system analysis
- Quantification of baseline water mapping
- Monitoring and measurements using pressure and flow meters and various other devices
- Quantification of inefficiencies and leaks
- Quantification of water quality loads and discharges
- Quantification of variability in flows and quality parameters
- Strategies for water treatment and reuse or direct use
- Water balance
- Mapping of Water quality requirement at various user areas

3. METHODOLOGY OF THE STUDY

In this section brief about the methodology adopted for carrying out the study is to be discussed.

4. ASSESMENT OF PRESENT WATER USAGE

In this section, assessment of present water usage is to be carried out which should include plant water consumption trend, different sources of water, distribution details, water balance, metering system and water costing etc.

5. WATER & WASTE WATER TREATMENT & RECYCLING PRACTICES

This section provides the detailed analysis of the data along with the key findings regarding generation of effluents, collection and treatment systems in place, disposal of treated effluent and current existing recycling and reuse of treated effluent.

6. DATA ANALYSIS & RESULTS

This section provides the detailed analysis of the data along with the key findings, brief discussion on which should include fresh water balance, waste water mapping, discussion on water balance diagram of all important water consumptive units.

7. WATER CONSERVATION OPPORTUNITIES

This section deals with present scenario of water savings opportunity, potential, recommendation and benefit in terms of total annual water saving, monetary and payback period etc.

8. IMPLEMENTATION PLAN

In this section outcome of the study, summary of findings, recommendations and implementation plan for water savings is to be described.

9. ANNEXURES (MEASURED DATA)

10. ANNEXURES (DATA PROVIDED BY PLANT)