

WATER ASSESMENT REPORT 2018



Compliance Department
ANANTA GARMENTS LTD.

Introduction

Water is an essential resource for all life on the planet. Of the water resources on Earth only three percent of it is fresh and two-thirds of the freshwater is locked up in ice caps and glaciers. Of the remaining one percent, a fifth is in remote, inaccessible areas and much seasonal rainfall in monsoonal deluges and floods cannot easily be used. As time advances, water is becoming scarcer and having access to clean, safe, drinking water is limited among countries. At present only about 0.08 percent of all the world's fresh water is exploited by mankind in ever increasing demand for sanitation, drinking, manufacturing, leisure and agriculture. Due to the small percentage of water remaining, optimizing the fresh water we have left from natural resources has been a continuous difficulty worldwide.

Water management is the activity of planning, developing, distributing and managing the optimum use of water resources. Water is a basic necessity. No living creature can live without water. There's a scarcity of water. To avoid this scarcity, water is saved and managed efficiently

Ananata Garments Limited believes in sustainable development. To ensure sustainability in water use we have an active and structured water management system. Much effort in water resource management is directed at optimizing the use of water and in minimizing the environmental impact of water use on the natural environment. The observation of water as an integral part of water resource management. The first step of water management system is to track the water use and understand the distribution of the water in the facility. As a part of this step this report is prepared which will help to understand the use and distribution of water in the facility.

Purpose: The purpose of this report is to understanding the tracking system of water as well as the the distribution of water among the factory. The core intent of this report is to make a water balance thus everybody can understand withdrawal, consumption and the distribution pattern of water at Ananta Garments Ltd.

Scope: This report covers the whole water usage scenario of Ananta Garments Ltd. And it will be used in internal decision making as well as public sharing.

SAVE WATER

Monthly Ground Water Consumption

Name of Month	Pump-01		Water Consumption (m3)	Pump-02		Water Consumption (m3)	Total Ground Water Consumption (m3)	Total Ground Water Consumption (ltr)
	Start Reading	End Reading		Start Reading	End Reading			
January-2018	90510	96434	5924	268043	279718	11675	17599	17599000
February-2018	96434	101504	5070	279718	289224	9506	14576	14576000
March-2018	101504	107714	6210	289224	299460	10236	16446	16446000
April-2018	107714	112933	5219	299460	309993	10533	15752	15752000
May-2018	112933	117554	4621	309993	319252	9259	13880	13880000
June-2018	117554	120182	2628	319252	324912	5660	8288	8288000
July-2018	120182	124122	3940	324912	332077	7165	11105	11105000
August-2018	124122	126899	2777	332077	337080	5003	7780	7780000
September-2018	126899	131048	4149	337080	346183	9103	13253	13253000
October-2018	131048	134597	3549	346183	355287	9104	12653	12653000
November-2018	134597	137639	3042	355287	363252	7965	11007	11007000
December-2018	137639	139627	1988	363252	371488	8236	10224	10224000
Total			49117			103445	152562	152562000

Monthly Rain Water Consumption

Name of Month	Meter Reading		Total Rain Water Consumption (m3)	Total Rain Water Consumption (ltr)
	Start Reading	End Reading		
June-2018	679	747	68	68000
July-2018	747	897	150	150000
August-2018	897	905	08	8000
Total			226	226000

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Calculation

Total Fresh Water extraction: 152562000 ltr (meter)

Total Rain Water: 226000 ltr (meter)

Total Water Consumption = 152788000 ltr

❖ **Water used in utility:**

Boiler: 1696000 ltr (meter)

Generators: 5000 ltr (assumption based on previous experience)

Total = 1701000 ltr

❖ **Water used in Car wash: 6822000 ltr (meter)**

❖ **Water used in Dormitory and staff dining :**

Staff dining: $103 \times 7 \times 298 = 214858$ ltr (103 person 1 meal each day)

Staff dining: $46 \times 14 \times 298 = 191912$ ltr (103 person 2 meals each day)

Security Dormitory: $40 \times 60 \times 298 = 715200$ ltr (40 person 3 meals, bathing, etc.)

Total = 1121970 ltr

❖ **Water used in worker dining : $1650 \times 5 \times 298 = 2458500$ ltr (1650 person 1 meal each day)**

❖ **Water used in production building for domestic purpose: $(152788000 - 1701000 - 6822000 - 1121970 - 2458500) = 140684530$ ltr**

Per Head water consumption in production building in 2018 = $140684530 / 6700 = 20998$ ltr

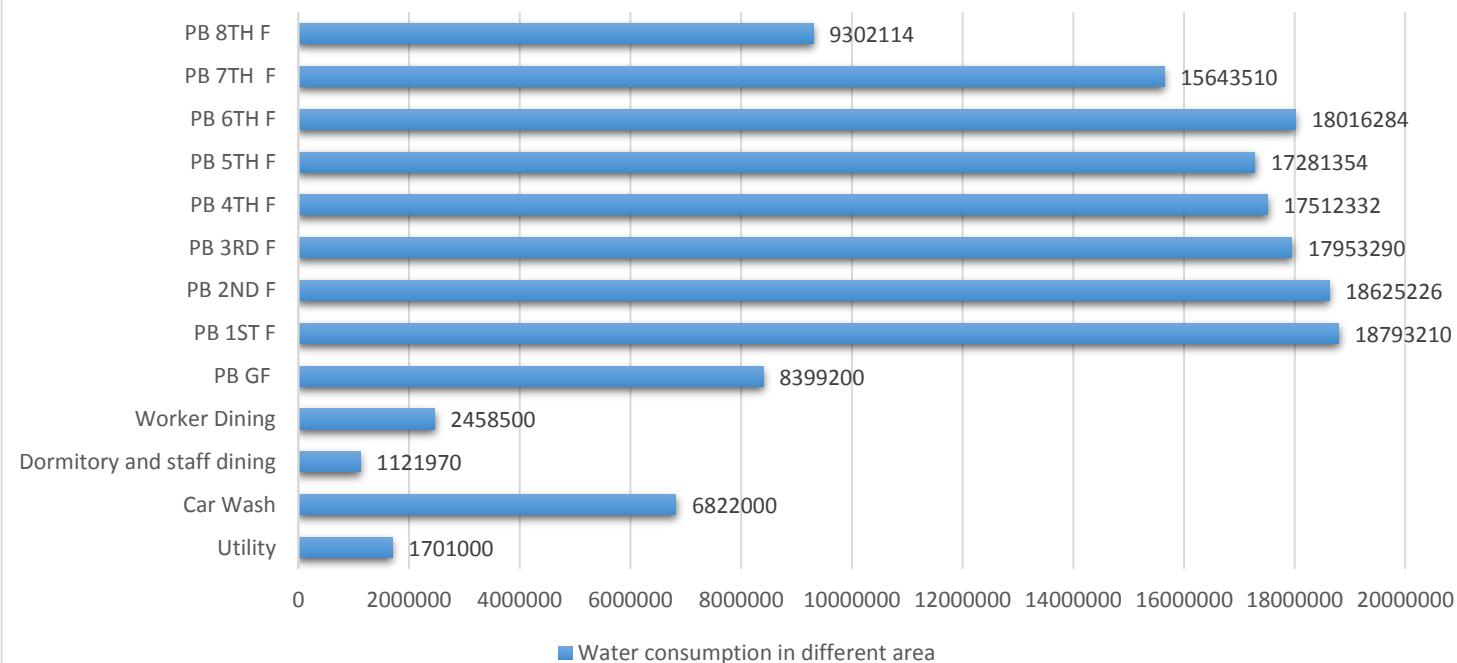
Daily per Head water consumption in production building in 2018 = $20998 / 298 = 71$ ltr

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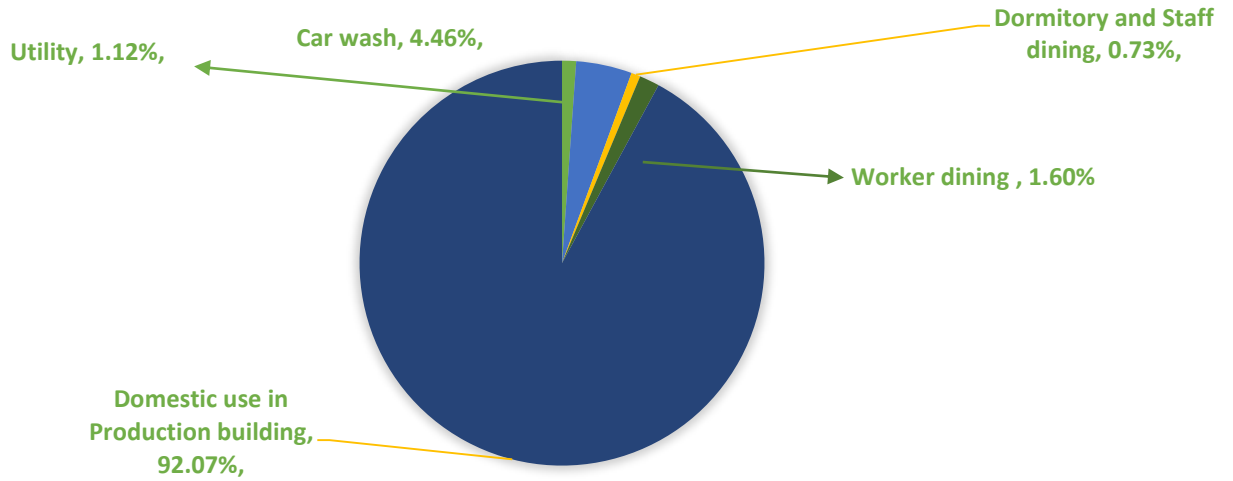
Floor wise Water Consumption

Floor	Strength (Person)	Water Consumption in 2018(ltr)	Rank
Ground Floor	400	400*20998= 8399200	10
1 st Floor	895	895*20998=18793210	1
2 nd Floor	887	887*20998=18625226	2
3 rd Floor	855	855*20998=17953290	4
4 th Floor	834	834*20998=17512332	6
5 th Floor	823	823*20998=17281354	7
6 th Floor	858	858*20998=18016284	3
7 th Floor	745	745*20998=15643510	8
8 th Floor	443	443*20998= 9302114	9

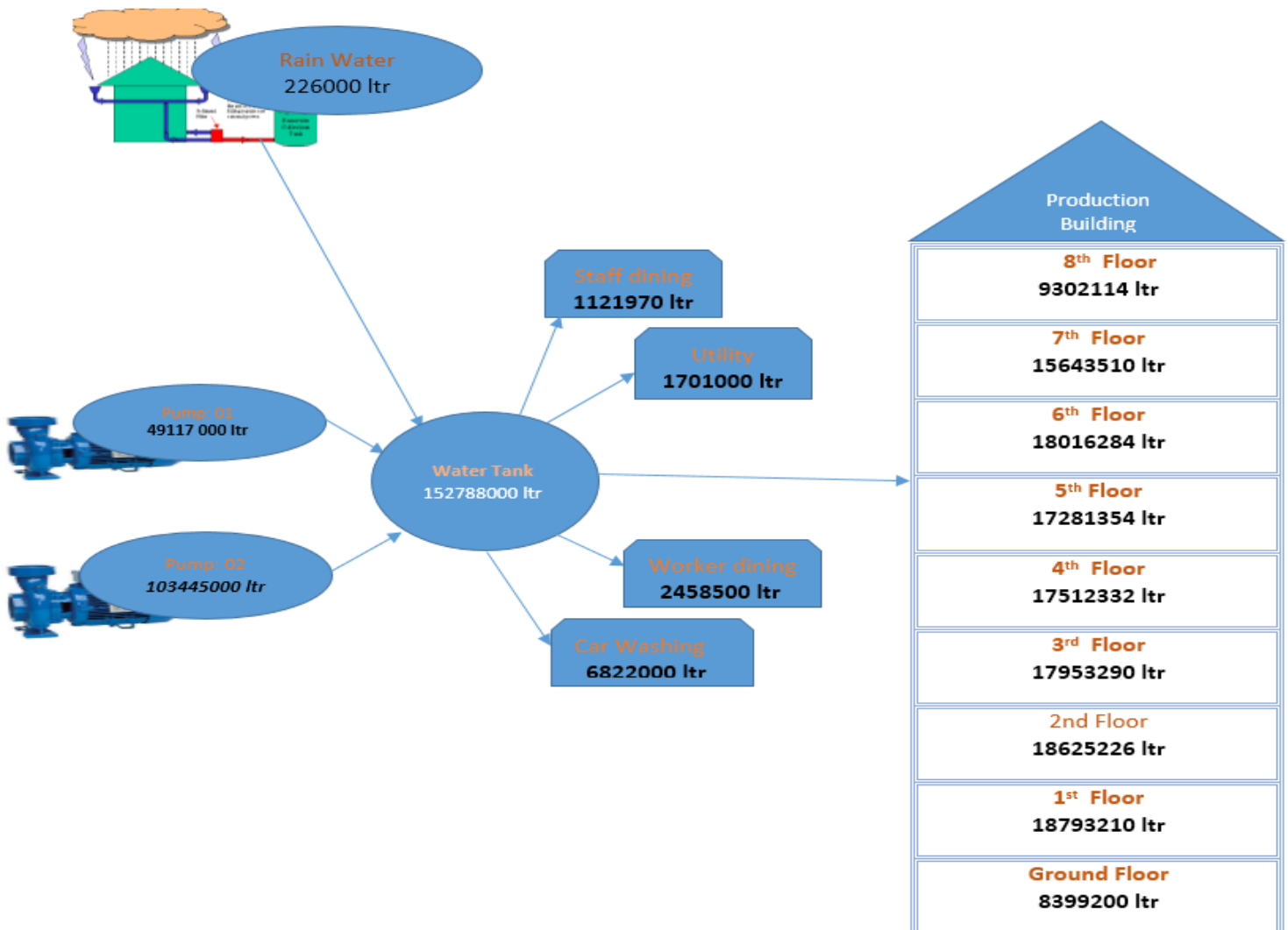
Water consumption in different areas (Ltr)



WATER CONSUMPTION FOR DIFFERENT PURPOSES(%)



Water distribution and Balance



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Conclusion and Recommendation:

Ananta Garments Ltd. is a Cut to finish woven garments manufacturer. It seems unusual that per head water consumption is too high. It should be controlled. Total water inlet tracking system is very good but distribution and outlet tracking system is poor. Some recommendations are mentioned below to improve the water management system:

- ✓ Efficient taps can be installed
- ✓ Water piping system should be improved
- ✓ Metering in staff and water dining area is urgent
- ✓ Floor wise metering can be done
- ✓ More awareness program should be carried out to make the employee more conscious about water use.



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