



Ananta Jeansware Limited
277/2, Kabi Jashimuddin Road, Pagar ,Tongi, Gazipur



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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 Jeansware 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 understand 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 jeansware Ltd.

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

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Monthly Ground Water Consumption-2018

Name of Month	Ground Water Consumption (m3)-2018	Ground Water Consumption (Liter)-2018	Remarks
January-2018	6418	6418000	
February-2018	5551	5551000	
March-2018	6257	6257000	
April-2018	6566	6566000	
May-2018	6264	6264000	
June-2018	4715	4715000	
July-2018	5587	5587000	
August-2018	3625	3625000	
September-2018	5542	5542000	
October-2018	5430	5430000	
November-2018	5230	5230000	
December-2018	5313	5313000	
Total	66498	66498000	

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Monthly Rain Water Consumption 2018

Name of Month	Rain Water Consumption (m3)	Rain Water Consumption (Liter)-2018	Remarks
January-2018			
February-2018			
March-2018			
April-2018			
May-2018	9	9000	
June-2018	61	61000	
July-2018	79	79000	
August-2018	19	19000	
September-2018	4	4000	
October-2018	13	13000	
November-2018	2	2000	
December-2018	0	0	
Total	187	187000	

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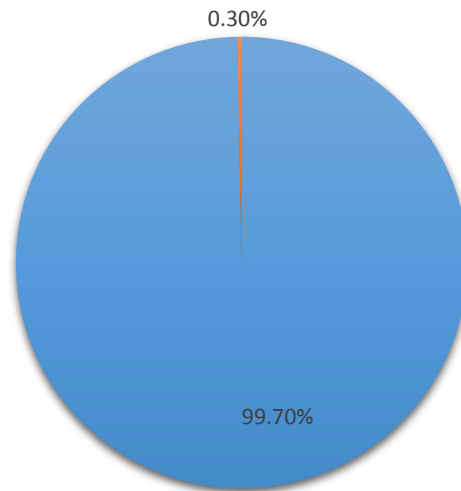
Calculation

Total Fresh Water extraction: 66498000 ltr (meter reading))

Total Rain Water: 187000 ltr (meter reading))

Total Water Consumption = 66685000 ltr

Source wise water consumption



■ Ground Water ■ Rain Water

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Water used in utility:

Boiler: 3000000 ltr (assumption based on previous experience)

Generators: 5000 ltr (assumption based on previous experience)

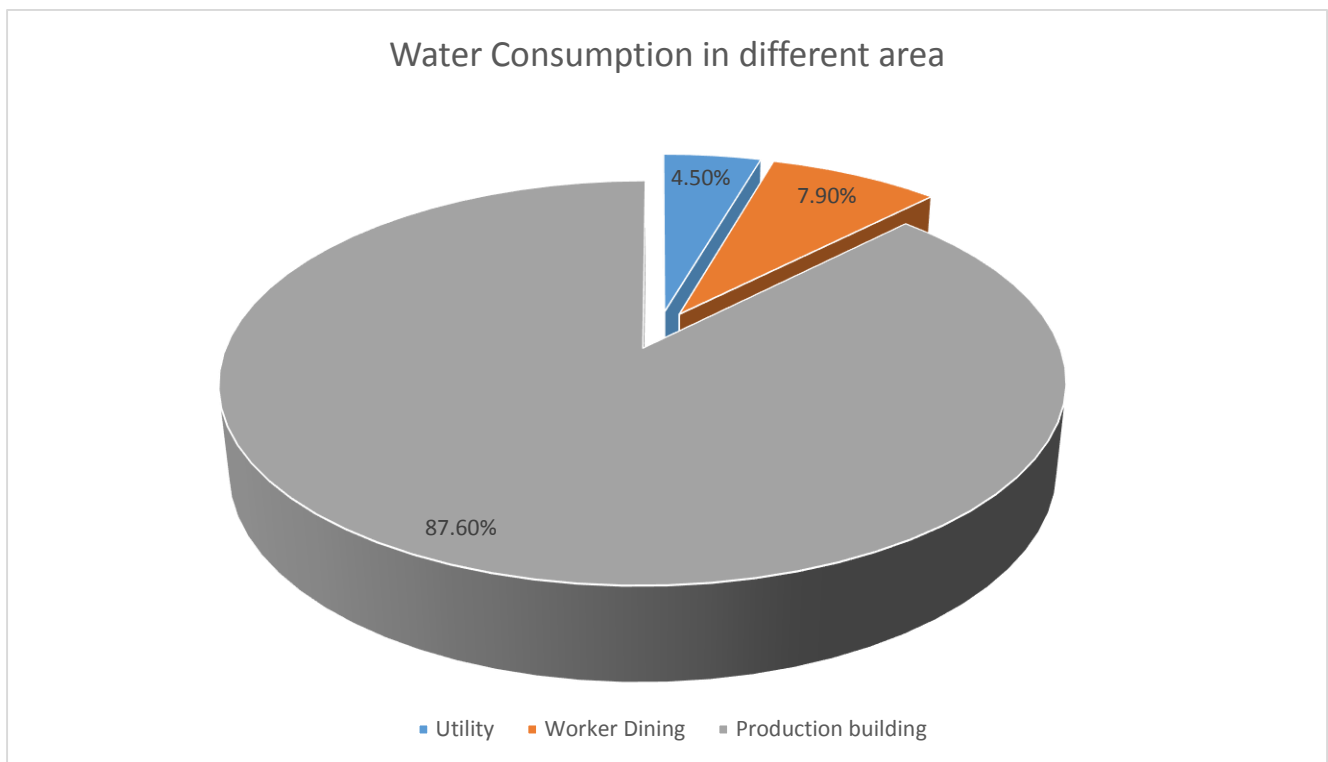
Total = 3005000 ltr

Water used in worker dining:

$2500 * 7 * 300 = 5250000$ (2500 person 1 meal each day)

Water used in production building for domestic purpose:

$(66685000 - 3005000 - 5250000) = 58430000$ ltr



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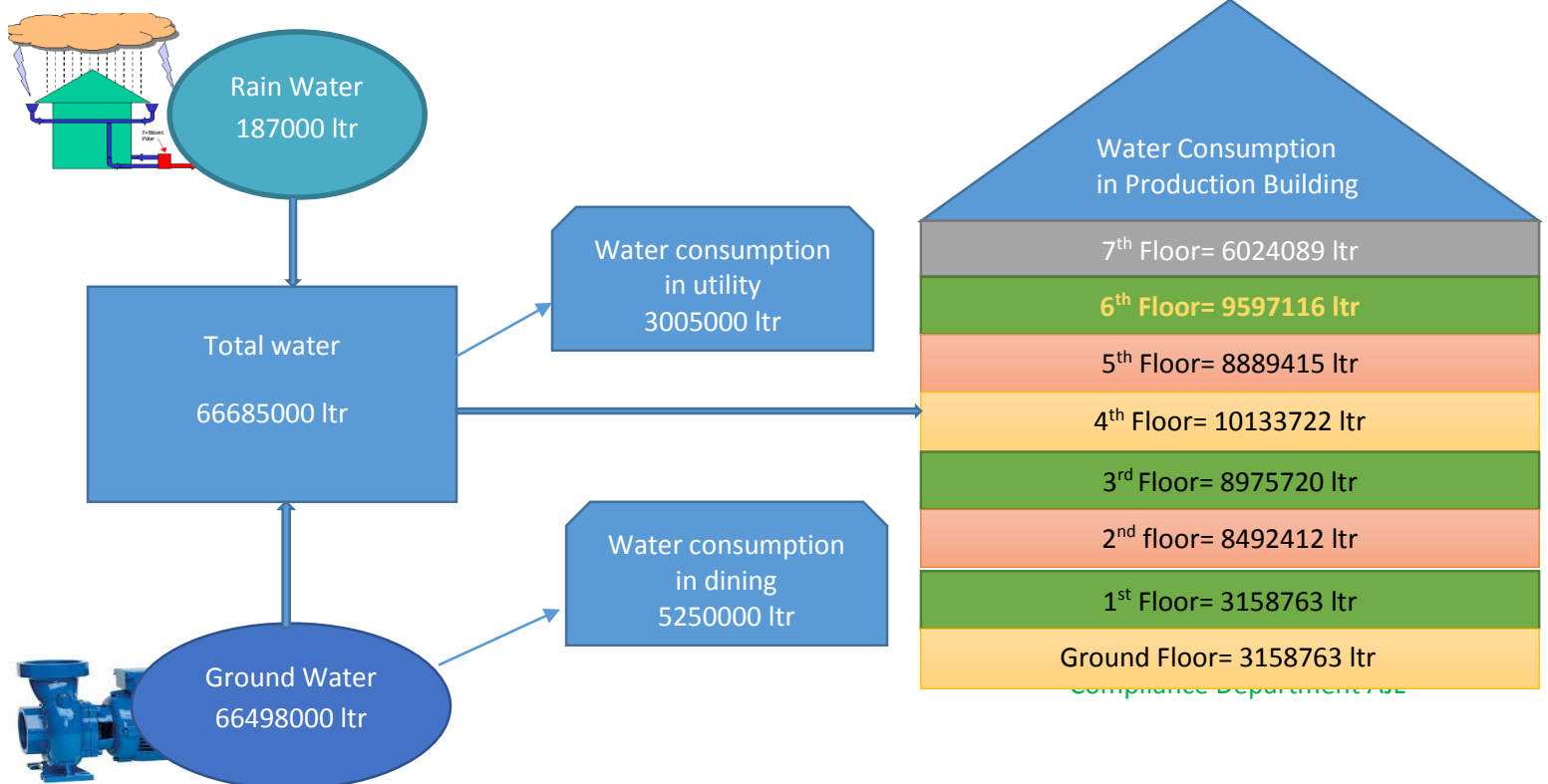
Per Head water consumption in production building in 2018 = $58430000/3385$
=17261 ltr

Daily per Head water consumption in production building in 2018 = $17261/300$
= 58 ltr

Floor wise Water Consumption

Floor	Strength (Person)	Water Consumption in 2018(ltr)	Rank
Ground Floor	183	$183*17261= 3158763$	7
1 st Floor	183	$183*17261= 3158763$	7
2 nd Floor	492	$492*17261= 8492412$	5
3 rd Floor	520	$520*17261=8975720$	3
4 th Floor	587	$587*17261=10133722$	1
5 th Floor	515	$515*17261=8889415$	4
6 th Floor	556	$556*17261=9597116$	2
7 th Floor	349	$349*17261=6024089$	6

Water Use Scenerio in 2018



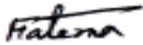
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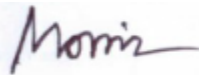
Conclusion and Recommendation:

Ananta Jeansware 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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