



WATER ASSESSMENT REPORT 2018



Compliance Department
ABM FASHIONS LTD



ABM FASHIONS LTD
Horinachala, Kashimpur, Konabari, Gazipur, Dhaka-1700

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

ABM Fashions Ltd. 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.



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Monthly Ground Water Consumption

Month	Consumption (M3)	Consumption (Liter)	Remarks
January	6236	6236000	
February	5360	5360000	
March	6173	6173000	
April	6213	6213000	
May	5648	5648000	
June	4192	4192000	
July	4992	4992000	
August	2775	2775000	
September	4073	4073000	
October	4767	4767000	
November	4024	4024000	
December	3666	3666000	
Total	58119	58119000	

Monthly Rain Water Consumption

Month	Consumption (M3)	Consumption (Liter)	Remarks
January	0	0	
February	0	0	
March	0	0	
April	120	120000	
May	86	86000	
June	101	101000	
July	133	133000	
August	4	4000	
September	3	3000	
October	15	15000	
November	0	0	
December	0	0	
Total	462	462000	



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Calculation

Total Fresh Water extraction: **58119000** ltr (meter)

Total Rain Water: **462000** ltr (meter)

Total Water Consumption = 58581000 ltr

❖ **Water used in utility:**

Boiler: **1175300** ltr (meter)

Generators: **4000** ltr (assumption based on previous experience)

Total = 1179300 ltr

❖ **Water used in Car wash:** $5000 * 298 = 1490000$ ltr (assumption based on previous experience)

❖ **Water used in gardening :** $2000 * 298 = 596000$ ltr

❖ **Water used in worker dining :** $2000 * 3 * 298 = 1788000$ ltr (2000 person 1 meal each day)

❖ **Water used for drinking :** $3100 * 2 * 298 = 1847600$ ltr

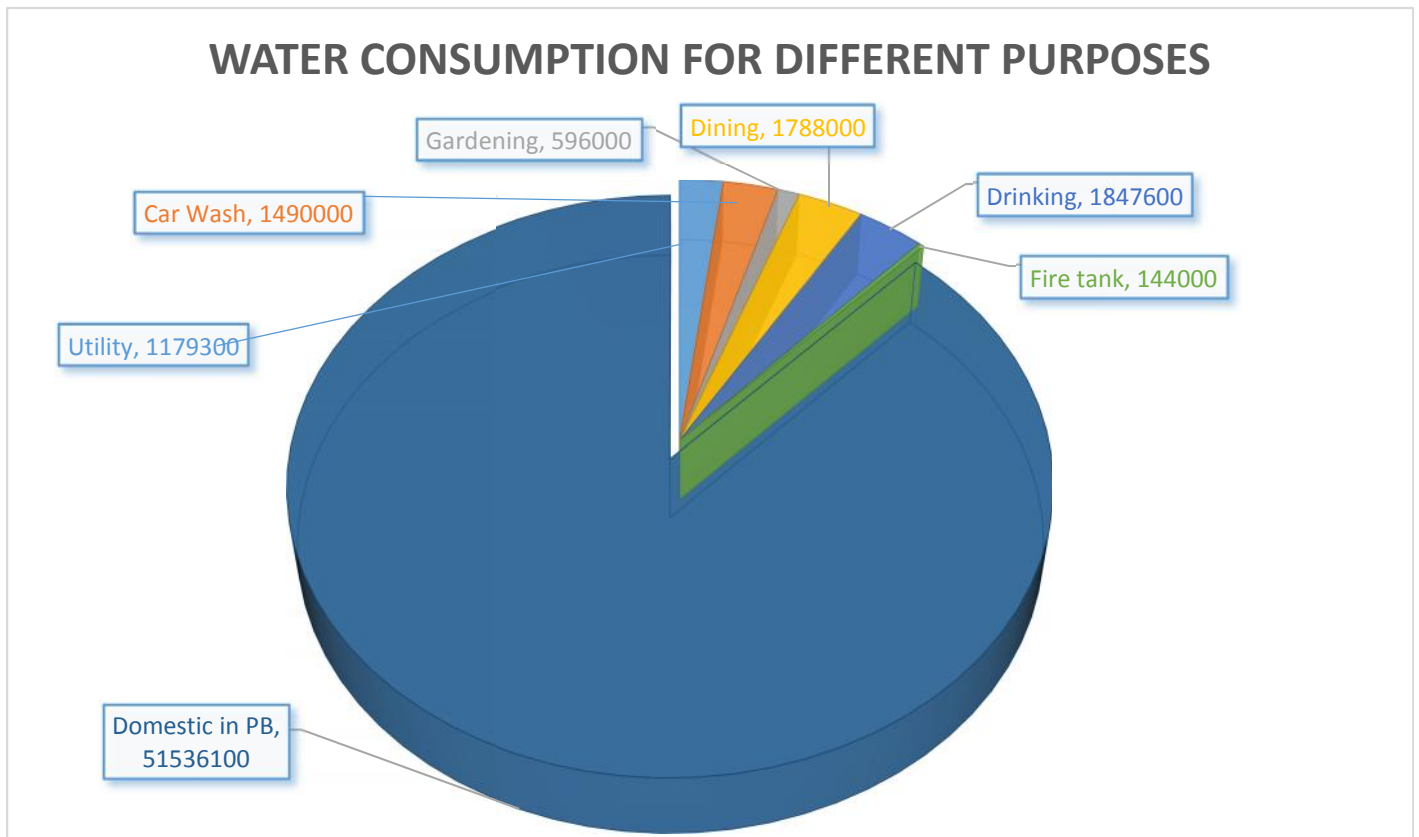
❖ **Water used in fire tank : 144000 ltr**

❖ **Water used in production building for domestic purpose:** $(58581000 - 1179300 - 1490000 - 596000 - 1847600 - 144000 - 1788000) = 51536100$ ltr



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Water consumption for different purposes			
Purpose	Water consumption(ltr)	Water consumption (%)	Rank
Utility	1179300	2.01%	5
Car Wash	1490000	2.54%	4
Gardening	596000	1.01%	6
Dining	1788000	3.05%	3
Drinking	1847600	3.15%	2
Fire tank	144000	0.24%	7
Domestic in PB	51536100	87.97%	1





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ABM FASHIONS 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 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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