

Paradise Washing Plant Limited

Water Assessment Report -2018



Fatema

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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

Paradise Washing Plant 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 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 Paradise Washing Plant Ltd.

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

Monthly Ground Water Consumption-2018

Name of Month	Pump O1	Pump O2	Pump m O3	Total Ground Water Consumption (m3)	Total Ground Water Consumption (Liter)
	Water Consumption(m3)	Water Consumption(m3)	Water Consumption(m3)		
January	619	47468	9283	57370	57370000
February	534	44882	8017	53433	53433000
March	570	47917	8556	57043	57043000
April	594	49911	8913	59418	59418000
May	592	49691	8874	59157	59157000
June	13748	39488	22648	75884	75884000
July	19792	45757	25238	90787	90787000
August	7459	18445	12603	38507	38507000
September	13782	21749	22220	57751	57751000
October	9808	17437	22048	49293	49293000
November	2427	20465	30759	53651	53651000
December	982	30014	19107	50103	50103000
Total	70907	433224	198266	702397	702397000

Monthly Rain Water Consumption-2018

Name of Month	Rain water consumption (m3)	Rain Water Consumption (Liter)	Remarks
May-2018	200.17	200170	
June-2018	287	287000	
July-2018	150.55	150550	
August-2018	70.23	70230	
September-2018	15.32	15320	
October-2018	32.07	32070	
November-2018	70.2	70200	
Total	825.54	825540	

Monthly Recycle & Reuse Water Consumption-2018

Name of Month	Recycle/Reuse water consumption (m3)	Recycle/Reuse water Consumption (Liter)	Remarks
September-2018	8544	8544000	
October-2018	11668	11668000	
November-2018	9390	9390000	
December	8249	8249000	
Total	37851	37851000	

Summary of water withdrawal & discharging:

Name of Month	Total rain water harvesting	Ground water consumption(m3)	Recycle Water+ Reuse Water (m3)	Outlet Water(m3)	Remarks
January	-	57370		55362	
February	-	53433		51386	
March	-	57043		55087	
April	-	59418		55087	
May	200.17	59157		57038	
June	287	75884		41667	
July	150.55	90787		76120	
August	70.23	38507		33718	
September	15.32	57751	8544	69123	
October	32.07	50841	11668	60254	
November	70.2	53651	9390	52617	
December	0	50103	8249	44537	
Total	825.54	702397	37851	651996	

Calculation

Total water extraction- 702397 m3

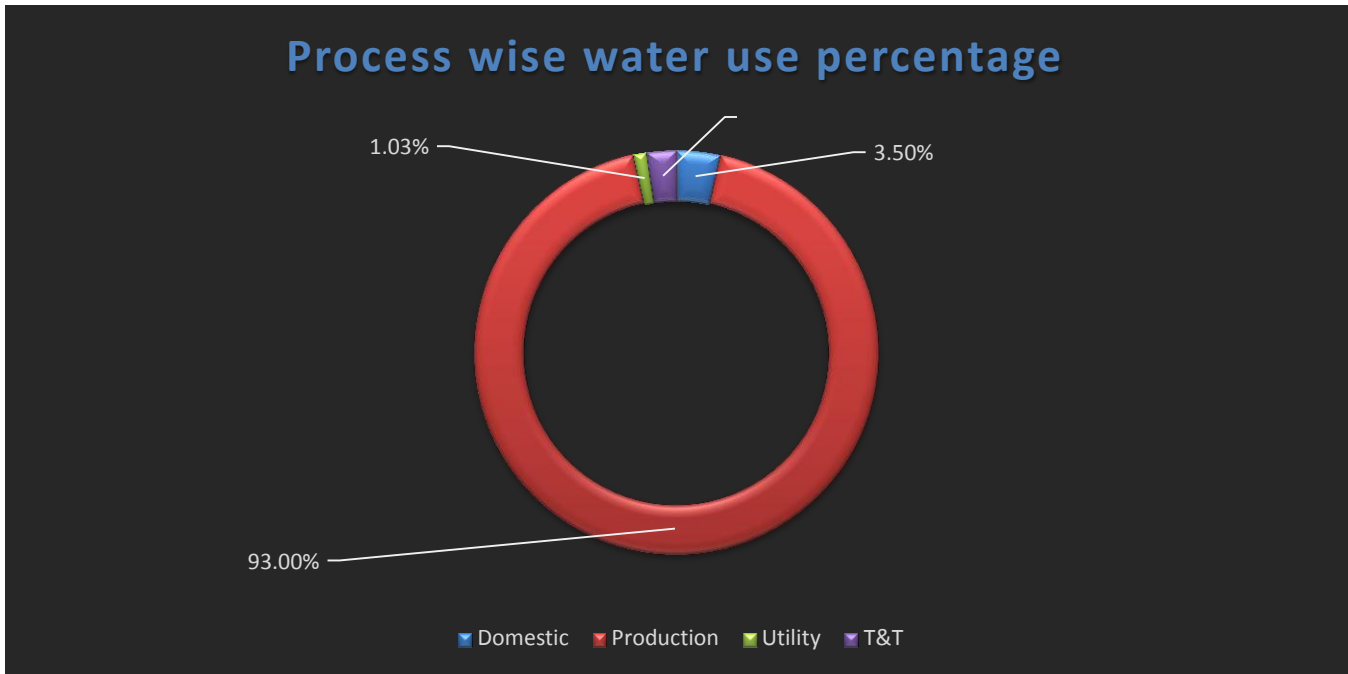
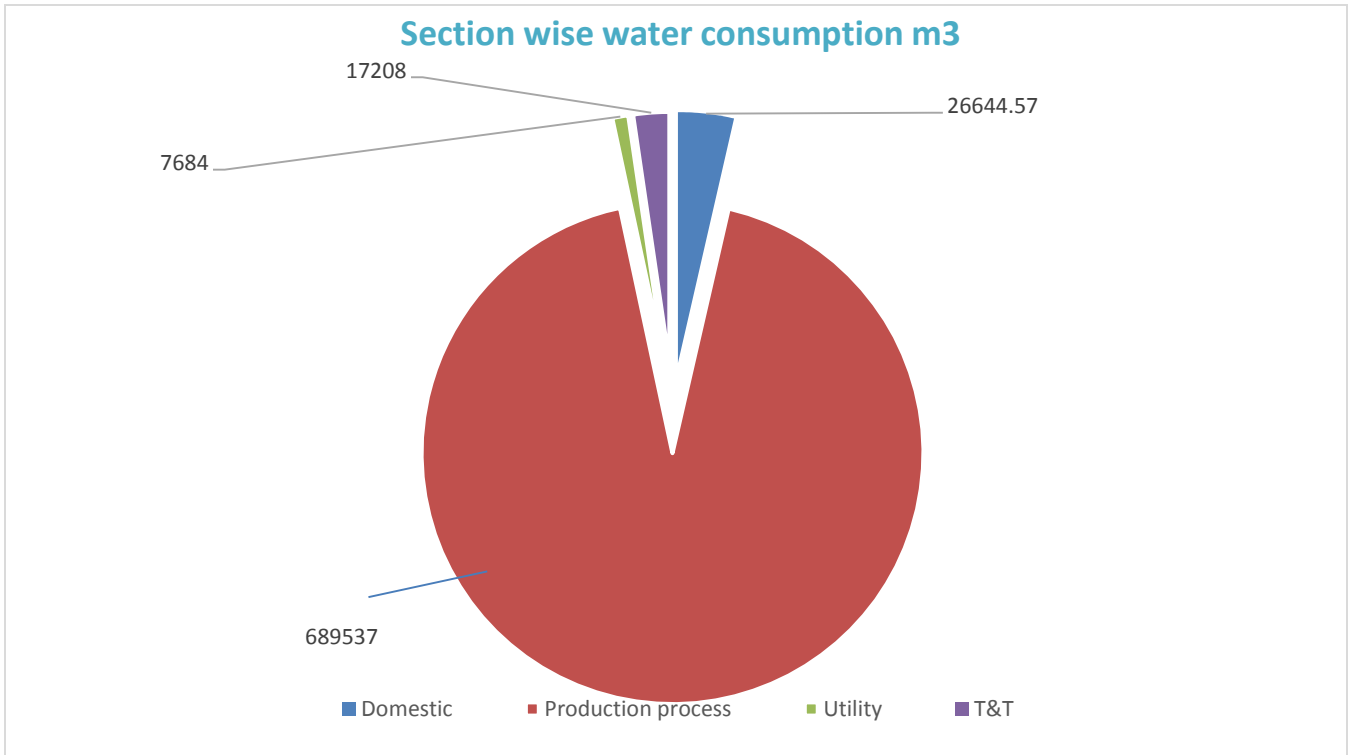
Rain Water Consumption- 825.54 m3

Total Water Consumption= 703222.540 m3

Total recycled water = 37851 m3

Process Wise Water Consumption Record-2018

Name of Month	Domestic Consumption (m3)	Process Water Consumption (m3)	Boiler Consumption (m3)	T&T Water Consumption (m3)	Remarks
January	1334	55298	738	0	
February	1191	51532	610	0	
March	1336	54972	735	0	
April	1319	57349	750	0	
May	1636.17	57011	710	0	
June	1552	74269	350	0	
July	3460	84586	713	2028	
August	1551	34578	358	2020	
September	2311	61610	744	1672	
October	3944.4	54637	618	1681	
November	4008	55373	674	2916	
December	3002	55432	684	4389	
Total	26644.57	689537	7684	17208	



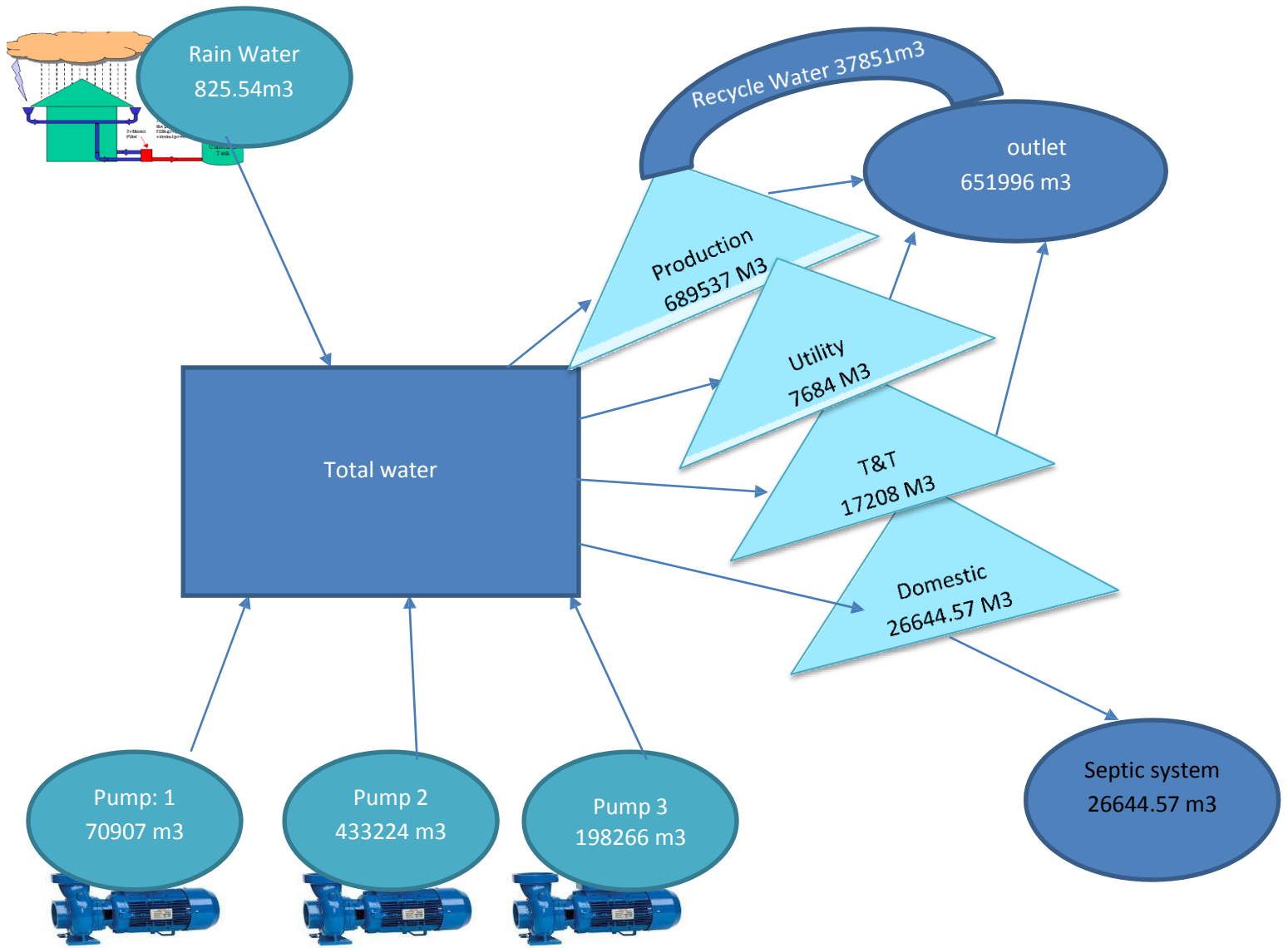


FIG: Water use distribution

Conclusion: This report contains the overall scenario of water consumption at paradise washing plant Ltd. It includes the input to output of all water.