

Certificate of Merit

Soap & Detergents

HINDUSTAN UNILEVER LIMITED Hamirpur (Himachal Pradesh)

Unit Profile

Hindustan Unilever Limited (HUL) is India's largest Fast Moving Consumer Goods Company with a heritage of over 80 years in India and touches the lives of every two out of three Indians. HUL works to create a better future every day and helps people feel good, look good and get more out of life with brands and services. The company has over 16,000 employees and has an annual turnover of 27,408 cores (2013 - 2014).

Sumerpur Detergents Factory is located 80 kms south of Kanpur, with a manufacturing capacity of 210,000 TPA. It is the second largest Home Care category own factory in South Asia and produced its highest ever 1.27 lakh tons in 2013. The factory complex includes two units within the factory premises and one co-packer unit near factory (fully managed by and part of Sumerpur factory). The factory is around 25 years old and is one of the most complex sites w.r.t. to the portfolios manufactured. The site manufactures Mass Fabric wash, Premium Fabric Wash & Household care viz. Surf Excel Bar, Wheel Bar, Rin Bar, Wheel Powder and Vim Bar.



Unit 1



Unit 2

Energy Conservation measures taken in 2013

In 2013 it was planned to put a new manufacturing line as capacity expansion project of Vim Bar (35,000 TPA capacity). This expansion brought its own challenges, adversely affecting sustainability parameters, increasing CO₂ emissions, As per company's vision of decoupling growth from environmental foot-print and ensure continuous improvement on energy, Sumerpur explored new ways of arresting CO₂ emission through different energy conservation project.

Methodology Used

The team followed TPM 12 step approach for thorough study of energy consumption. Data was collected for the entire unit on weekly & monthly basis and an inventory of action points was made based on, Why-Why analysis, energy audit, brain storming, TPM circle meetings, 4M analysis etc, Team majorly work in 3 direction

- A. Improve the efficiency** (reduction of FO consumption in boiler, processing time reduction, conveyor interlock, moved from constant speed to variable speed process through VVFD etc)
- B. Use proven Technology** (screw compressor for refrigerator unit and air compressor, use of LED light, planetary gear box etc)
- C. Use Non Conventional source of energy** (complete admin building converted to solar light, solar water heater for canteen & other lighting)

Energy Conservation Initiatives

Projects Summary							
Project no	Description	Total Annual Cost saving Rs. (000)	Investment in Rs. (000)	Pay back period in year	Expected savings in KWH	Expected Savings in GJ	Expected Saving in CO ₂ (T/Annum)
1	Replacement of reciprocating chiller by Screw chiller	2112	3276	1.55	281652	1014.23	257.05
2	Solar water heater for canteen & guest house	79.2	150	1.89	10560	38.03	9.64
3	VVFD drive for mixer	2097	4568	2.18	279622	1006.92	255.19
4	Replacement of Reciprocating Compressor with Screw Compressor	2620	2500	0.95	349272	1257.73	318.76
5	Multi screw Gear Box replacement with planetary GB	230	500	2.17	30720	110.62	28.04
6	Replacement of tubelights by LED lights	119	180	1.51	16589	59.74	15.14
7	Replacement of Tube lights by LED Light fitting at shop floor.	33	100	3.06	4536	16.33	4.14
8	FO saving from Boiler	1907	400	0.21	471265	1697.03	430.10
9	Powder BCT reduction	497	1000	2.01	66377	239.02	60.58
10	Conveyer interlock	105	20	0.19	14000	50.41	12.78
11	Admin on Solar	157	579	3.69	21038	75.76	19.20
12	HPSV to CFL lighting	813	141	0.17	108405	390.37	98.93
		10769	13414		1654036	5956	1510

*Few projects are under execution

Other energy saving initiatives in 2014

- Process batch cycle time reduction (~30%) for dish wash bar, leading to annual saving of 2.3 lakh KWH (~17.25 lakhs INR)
- Shutting down of chiller and using cooling tower water for cooling, leading to annual saving of 88K KWH (~6.6 lakhs INR)
- Significant productivity improvement

Team Sumerpur creates history

Shows Bias for Action in the face of adversity to create a new record



Team Sumerpur recently proved that when the going gets tough, the tough get going by creating a new production record even in the face of some severe challenges.

One machine was shut for three days and finished goods dispatches were interrupted due to the breakdown of the Yamuna River bridge. In that very week, our colleague in Sumerpur pushed through to deliver a record-breaking 847 tonnes of Vim with an average OEE of 90.3% for the entire week.

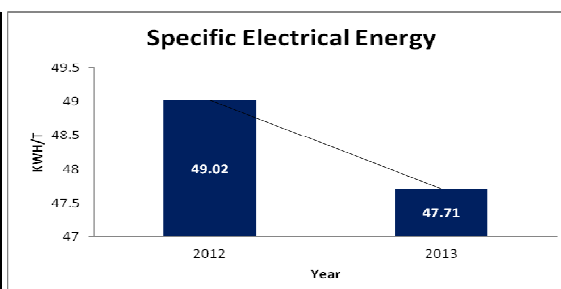
Having achieved the 650 tonnes milestone earlier, the team was charged up to achieve a stretching target of 800 tonnes. Even with two change-overs done in one line, the team managed to deliver three shifts of 50 tonnes production each. The new cascade not only exceeded in productivity, but also created a benchmark in quality by delivering the lowest Depot DPMU in Home Care and has sustained Zero DPMU for the past three months.

Said Hardev Singh, Factory Manager, Sumerpur, "This success can be attributed to good coordination and great teamwork. The Planning Team enabled us to achieve and surpass the target by extending us all the support we needed."

Snap-shot of the success story published on company's website

Specific Energy Consumption Trend

Year	Products	Sp Energy Consumption KWH/T	% reduction over last year
2012	Surf Excel Bar, Wheel Bar, Rin Bar and Wheel Powder	49.02	
2013*	Surf Excel Bar, Wheel Bar, Rin Bar and Wheel Powder	47.71	2.67



*Vim bar was added in 2013, which is not taken to have like-to-like comparison


Safety and Environment

The factory continues to have good safety record, inculcating zero tolerance behavior on safety among employees as well as contract employees, along with meeting all the Environmental parameters' targets for the current year. There is always positive involvement of all categories working inside factory to achieve target of injury free site. Our principle is to focus more on leading indicators so the possibility of any injury is eliminated. This we do by doing behavior contacts, mitigating finding of near misses, location wise audit etc. Following are SHE achievement.

A. Status of Safety Leading KPI Status

HUL – Safety Performance Data – 2013	
	MANUFACTURING
a) Safety Statistics:	Name of Site
	SUMERPUR
<i>Note : Enter data / information in grey colour cell only.</i>	
Parameter	YTD
Leading KPI's	
Leading Safety Index : >86 % Q1, >87% Q2, >88% Q3, >90% Q4	98.7
No.of Safety Engagements per employee per month : >1.5 (by each WL1+)	4.23
No.of Formal System audits per head per month : >1.0 (by each WL1+)	1.04
No.of Safety Hazard identified per head per month : 5.0 (by each WL1+)	32.92
No.of Safety Hazard mitigated : >85%	92.02
No.of SAM per month by each WL 1A+B+C : 0.5	0.93
Near-miss per 100,000 manhours worked :15	17.76

B. Key KPI Status Sumerpur Environment - 2013

Key Environmental KPI's - Sumerpur				
	Based on Core KPI's	UOM	Target	Actual YTD
 Environment	CO ₂ from energy	Kg/ton	67.00	50.39
	Energy	GJ/ton	0.37	0.29
	Hazardous waste	Kg/ton	0.09	0.09
	Non Hazardous waste	Kg/ton	0.00	0.00
	Water	M3/ton	0.28	0.25
	COD	Kg/ton	0.00	0.00
	SOX	Kg/ton	0.1344	0.1091

Environment Policy

Unilever is committed to meeting the needs of customers and consumers in an environmentally sound and sustainable manner, through continuous improvement in environmental performance in all our activities. We focus in the entire field from where our product is contributing to environment,

Accordingly, the organisation aims to:

- Ensure safety of products and operations
- Exercise the same concern for the environment
- Reduce the environmental footprint of our business and brands

To achieve these aims, the unit will:

- Evaluate the environmental impacts at every stage, from sourcing of raw materials for our products all the way through to when our consumers use and dispose them.
- Ensure the unit complies with applicable environmental legislation and regulations and with Unilever global environmental Standards. Apply more stringent criteria than those required by law.
- Audit the compliance of the unit with legislation and Unilever Standards and investigate all environmental safety incidents in order to prevent recurrence.

- Operate an independent approval process to assure the environmental safety of our products and processes.
- Use standards of environmental risk/impact assessment which are robust, and scientifically sound, whilst at the same time working in partnership with others to improve on what we do.
- Develop our environmental management systems and processes to improve our environmental performance. Set targets for continuous improvement and put in place environmental safety and sustainability programmes to address our significant impacts.
- Encourage our suppliers to develop improved processes and ingredients and cooperate with our business partners to improve overall environmental impact and performance.
- Work with industry bodies, government agencies, business partners and other concerned organizations to promote environmental care, increase knowledge and disseminate best practice.
- Remain alert and responsive to developing issues, knowledge and public concerns.