

RAYMOND LIMITED
(TEXTILE DIVISION-JALGAON)

(i)

Unit Profile

Incorporated in 1925, Raymond is the leading, integrated producer of worsted suiting fabric in the world, with a capacity of producing 33 million meters of wool & wool-blended fabrics. A pioneer in the textile and men's apparel business, in India, with a turnover of over USD 600 Million, The Group has six, state-of-the-art textile plants and four garmenting factories, in India and Europe. The Raymond Group has already marked its presence in the global arena with partnerships with leading European manufacturers of carded woolens, fine shirting fabrics and specialty Denim. In addition, the Group has business interests in readymade garments, designer wear, Cosmetics & toiletries, engineering files and tools, prophylactics and air charter operations.

Moving up the value chain.

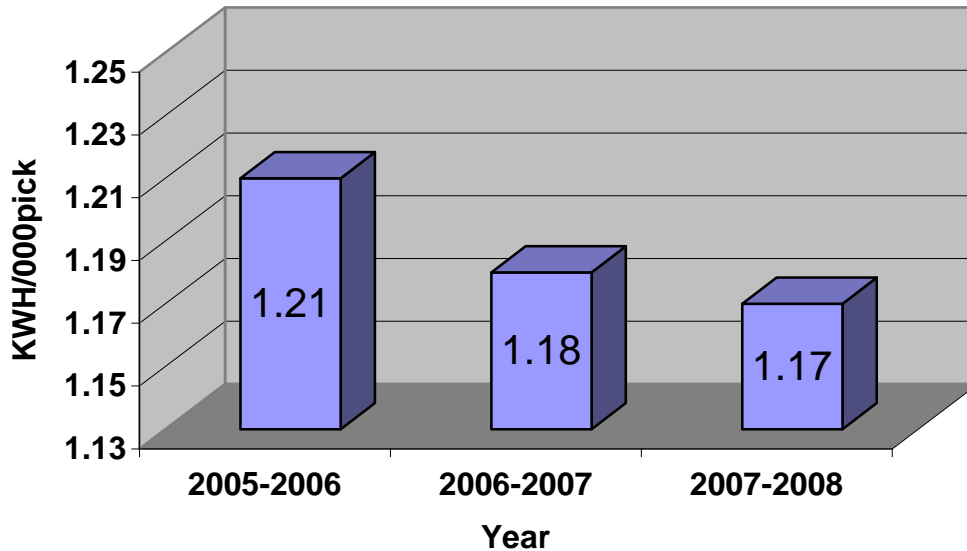
Raymond Ltd Jalgaon division is one of the 4 Textile units with manufacturing capacity of 54 lakh mtrs per annum of worsted suiting. Turnover of Jalgaon unit was Rs 3192 lakh for previous year. Raymond Ltd. Jalgaon is ISO9001, 14001 certified company and OHSAS certification is in process.

(ii)Energy consumption:

As a effect of various energy conservation measures implemented so far we could achieve savings in electrical energy cost of our unit up to 4.60 % for the year 2007-08.

Year	Electrical Energy Consumption			Electrical Energy Savings Achieved			
	Total Electrical Energy Consumption KWh/annum (i)	Energy Cost (Rs. Lakhs/year) (ii)	Specific Energy Consumption KWh/000 picks (iii)	% Reduction in Specific Energy Consumption on over 05-06 (iv)	Lakh KWh / annum (v)	Lakh Rs. / annum (vi)	% Savings achieved / Energy Cost of Prev. year (vi)/(ii)x100
2005-06	118.98	429.64	1.21	--	8.70	31.42	--
2006-07	125.61	518.35	1.18	2.47%	4.30	17.71	4.12
2007-08	123.11	510.56	1.17	3.30%	5.97	23.88	4.60

Specific Electrical Energy Consumption



It is evident from above graph and table that specific electrical energy consumption of our unit is showing reducing trend in last three years as a result of continuous efforts in the direction of energy conservation.

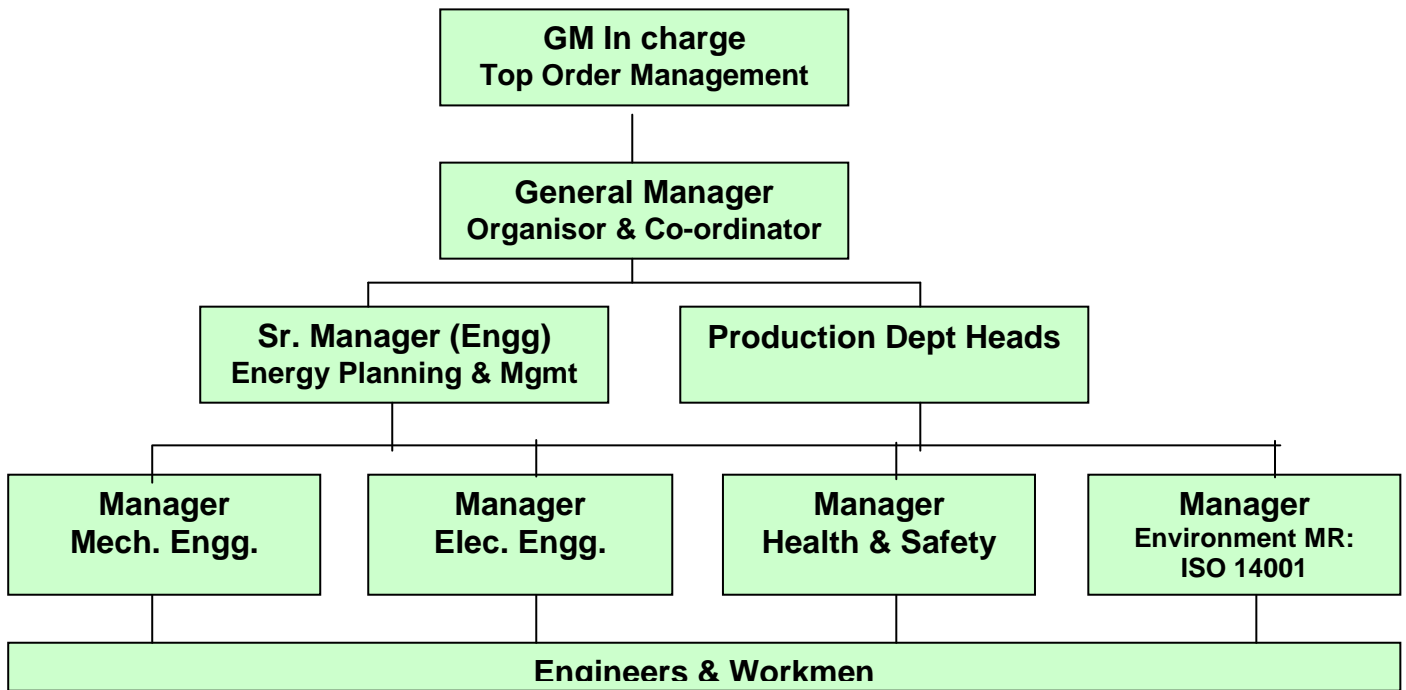
(iii) ENERGY CONSERVATION COMMITMENT, POLICY AND SET-UP.

Section & equipment wise specific consumption is regularly monitored to know how much we are consuming & where. For this we are providing metering equipment in each of the utilities and production departments wherever possible to keep close watch on consumption pattern to avoid inefficiencies. In an unending venture to improve energy efficiency & optimization of all resources study and audits are carried out on every energy consuming equipment. Different training programmes, seminars, are arranged for plant personnel for making them energy conscious.

Energy Conservation Cell has been formed at corporate level & at unit level too. The implementation of energy conservation scheme through Energy Conservation Cell is given the highest priority. The core team of Energy Conservation comprises of 12 members. Based on the recommendation made by EC Cell and reviewed by various level committees, the decisions are taken for implementation of energy conservation programmes.

The Energy Conservation Cell at Raymond Ltd., Jalgaon is headed by Sr.Manager – Engineering, who is reporting directly to GM-In charge to carry out energy audit and find out potential areas where energy can be saved.

Energy Conservation Team Structure:



ENERGY MANAGEMENT POLICY

We at Raymond Ltd. (Textile Division), Jalgaon involve in the production of High quality polyester wool and polyester viscose blended fabric are committed to Demonstrate excellence in our energy management performance on a continual Basis. To achieve this, we are committed to following objective: -

- Strengthen the awareness, skill and competence of our employee in ensuring sound energy management and energy conservation as a every one's responsibility and accountability.
- To involve all user in energy management and conservation through different activities like Suggestion scheme and active participation of user in energy conservation and energy management activity.
- Institution sound energy management strategies including, energy efficient power generation, effective energy resource management, waste avoidance, pollution prevention and best operating practices.
- Intensify the utilization of renewable energy resources.
- Optimize consumption of resources in the field of fuel, water and electrical energy.
- To develop system for specific knowledge of the technological, maintenance and operational issues of energy efficiency.
- Promoting a culture of innovation and creativity in order to be the lowest specific energy consumer.
- Remain in compliance with all energy conservation legislation.
- Reduce specific energy consumption 1% min. every year till the year 2006, to make the Jalgaon unit mile setter in the area of Energy Conservation.

This policy is available to all employees and parties.

Date : 1st April, 2003
Place : Jalgaon


Shri. V.K Gupta
Works Director

Raymond
LIMITED

Textile Division : Jalgaon

(iv) ENERGY CONSERVATION ACHIEVEMENTS

During the period 2005-2008, unit has implemented 20 Energy Conservation Projects through brain storming sessions under activities of Energy Conservation Cell. Unit has achieved Rs. 73.00 Lakhs after an investment of Rs. 52.45 Lakhs. Average payback period of EC measures was less than 12 months.

Major projects implemented for Energy Conservation during 2007 -2008.

1) Power saving by replacing 150 No. of Tube fittings at 5700 TFO department by Energy efficient ones.



Power saving by replacing 150 No. of 96 watts Tube fittings at 5700 TFO department by Energy efficient fittings with reflector of 33 watts each.

Investment : Rs. 1.27 lakhs

Saving : Rs. 3.24 lakhs per annum

2) Power saving by installation of Solar water heaters at Guest House:-



At mill guest house replaced 5 no. of electrical water geysers with 3 no. of 250 lit capacity solar water heaters.

Investment : Rs. 80,000

Saving : Rs. 15,000 per annum

3) Power saving at Yarn Room due to installation of Turbo Ventilators.



Power saving at Yarn Room due to installation of 26 no. of Turbo Ventilators.

- by removing 2 no. of 36" Exhaust Fans of 1200 watts
- by switching off 100 nos of 96 watts tube fittings during day time.

Investment : Rs. 2.50 lakhs

Saving : Rs. 1.31 lakhs per annum

4) Power saving at Air-conditioning plants due to optimum utilization of plant capacities & installation of 10 no. of Variable frequency drives for supply air blowers & spray pumps of A.C. plants:




Power saving at Air-conditioning plants due to optimum utilization of plant capacities & installation of 10 no. of Variable frequency drives for supply air blowers & spray pumps of A.C. plants to vary speed of blowers & pumps as per atmospheric conditions.

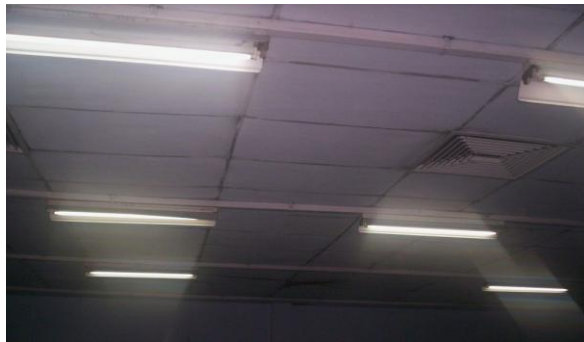
Investment : Rs. 12.00 lakhs

Saving : Rs. 19.22 lakhs per annum


Energy Conservation Measure Compendium

ID to be filled by BEE	Title of the measure Installation of VFD's for A.C plant blower & pump motors.	Sector -- Textile			
Year to be filled by BEE		Technology --Modernization			
<p style="text-align: center;">Description of the energy conservation measure:</p> <p>Power saving at Air conditioning plants due to optimum utilization of plant capacities by varying speeds of blower & pump motors as per seasonal variation with the help of 10 no. of variable frequency drives.</p>					
Picture/ sketch/ drawing before modification <small>(if available)</small>	Picture/ sketch/ drawing after modification				
					
Agency that executed the project (with complete address and email):Allen Bradley, Mumbai					
Total investment, Rs.: 1200000.00	Year of implementation: 2007-08				
First year energy cost savings, Rs. 1922000.00					
First year other savings, Rs. Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	3158.18	---	---	---	---
Energy consumption after	2677.62	---	---	---	---
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.00	---	---	---	---
Company complete address: Raymond Ltd, E-1, M.I.D.C. Area , Jalgaon-3 Contact person who could be contacted for more information: Mr. G.B.Pandit (Sr. Mgr. Engineering)				We authorize Bureau to use this information for dissemination Signature Date 06/10/2008	


Energy Conservation Measure Compendium

ID to be filled by BEE	Title of the measure	Sector-- Textile			
Year to be filled by BEE	Replacing conventional 150 tube fittings with energy efficient ones.	Technology --Modernization			
Description of the energy conservation measure: Power saving achieved by replacing 150 no. of double tube fittings of 96 watts each with the energy efficient ones having consumption of 33 watts each.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): In-house.					
Total investment, Rs.:127000.00			Year of implementation: 2007-08		
First year energy cost savings, Rs: 320000.00					
First year other savings, Rs: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	123.00	---	---	---	---
Energy consumption after	42.00	---	---	---	---
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.00	---	---	---	---
Company complete address: Raymond Ltd, E-1, M.I.D.C. Area , Jalgaon-3				We authorize Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. G.B.Pandit (Sr. Mgr. Engineering)				Signature	
				Date 06/10/2008	

Energy Conservation Measure Compendium

ID to be filled by BEE	Title of the measure	Sector --Textile			
Year to be filled by BEE	Installation of Turbo ventilators at yarn Room.	Technology –Energy Substitute			
<p align="center">Description of the energy conservation measure:</p> <p>Power saving achieved at yarn room due to installation of 26 no. of Turbo Ventilators.</p> <p>-By removing 2 no. of 1200 watt 36" Exhaust Fans.</p> <p>-By switching off 100 no. of tube fittings in day time as ample of natural light is available after installing Turbo ventilators with transparent base pvc sheet.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Ganesh Ventilators, Vadodara (Gujarat)					
Total investment, Rs: 250000.00			Year of implementation: 2007-08		
First year energy cost savings, Rs: 131000.00					
First year other savings, Rs: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	60.48	---	---	---	---
Energy consumption after	27.49	---	---	---	---
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.00	---	---	---	---
Company complete address: Raymond Ltd, E-1, M.I.D.C. Area , Jalgaon-3				We authorize Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. G.B.Pandit (Sr. Mgr. Engineering)				Signature	
				Date 06/10/2008	

Energy Conservation Measure Compendium

ID to be filled by BEE	Title of the measure	Sector --Textile			
Year to be filled by BEE	Installation of Solar water heaters for mill Guest House.	Technology --Energy Substitute			
<p align="center">Description of the energy conservation measure:</p> <p>At mill Guest House 5 no. of electrical water Geysers are replaced with 3 no. of Solar Water heaters of capacities 250 liters each.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): M/S. Khambete, Jalgaon					
Total investment, Rs.: 80000.00			Year of implementation: 2007-08		
First year energy cost savings, Rs: 15000.00					
First year other savings, Rs: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	3.84	---	---	---	---
Energy consumption after	0.00	---	---	---	---
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.00	---	---	---	---
Company complete address: Raymond Ltd, E-1, M.I.D.C. Area , Jalgaon-3				We authorize Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. G.B.Pandit (Sr. Mgr. Engineering)				Signature	
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