



Innovating for Healthy Generations

# Hindustan Latex Limited

## OVERVIEW

HLL's journey started with its incorporation as a corporate entity under the Ministry of Health & Family Welfare of Government of India on March 1, 1966. HLL was set up in the natural rubber rich state of Kerala, for the production of male contraceptive condoms for the National Family Planning Programme. The company commenced its commercial operations on April 5, 1969

### 1. CORPORATE PROFILE

HLL as a company has diversified over the years and turned many stones on its way towards the present state of affairs. HLL, from being a Condom manufacturer diversified into Contraceptives manufacturing and later into hospital product manufacturing including surgical sutures, surgical gloves, hydrocephalus shunts, tissue expander and blood bags.

Hindustan Latex is the only company in the world manufacturing and offering a wide range of contraceptives consisting of Condoms, Intra Uterine Devices and Oral Contraceptive Pills. The health care range of products consists of blood collection bags, surgical sutures, hydrocephalus shunt, tissue expanders, needle destroyers, blood bank equipment, Iron and Folic Acid tablets, medicated plasters and Oral dehydration salts. HLL recognises and acknowledges the importance of both its internal stakeholders and its customers in achieving aspirations and fulfilling its vision. The Company has a vision to achieve and sustain a high growth path, aspiring to attain global levels of scale and financial strength in order to compete and deliver in domestic and international markets.

HLL clearly acknowledges its responsibility towards the social sector, not only in changing behavioural patterns with respect to reproductive health but also towards providing healthcare solutions towards the weaker sections of society, viz., the rural sector and women.

As a commitment to social cause HLL has set up a non-profit organization, Hindustan Latex Family Planning Promotion Trust (HLFPPT). HLFPPT's current activities include implementing sexual and reproductive health projects, HIV/AIDS targeted interventions, and IEC projects funded by national and international development agencies like DFID, USAID, SIFPSA, European commission and Govt. of India. The interventions are directed at creating planned and sustained behavioral change for having small and healthy families, healthy and safe sexual and reproductive health etc.

### 2. UNIT PROFILE

Hindustan Latex has its corporate office at Thiruvananthapuram, the capital of 'God's Own Country' – Kerala. Two of the company's manufacturing facilities are situated at Thiruvananthapuram – one unit at Peroorkada, which manufactures condoms, and the other unit at Akkulam, which manufactures blood bags, Intra Uterine Devices, Surgical sutures, Hydrocephalus shunts, and Tissue Expanders. The third manufacturing unit for Condoms and Oral Contraceptive Pills is located at Kanagala near Belgaum, Karnataka.



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Today HLL-Peroorkada unit is the single largest unit in the world producing male contraceptive condoms with a total operating capacity of more than 1 Billion condoms per annum



## CERTIFICATIONS OF PEROORKADA FACTORY

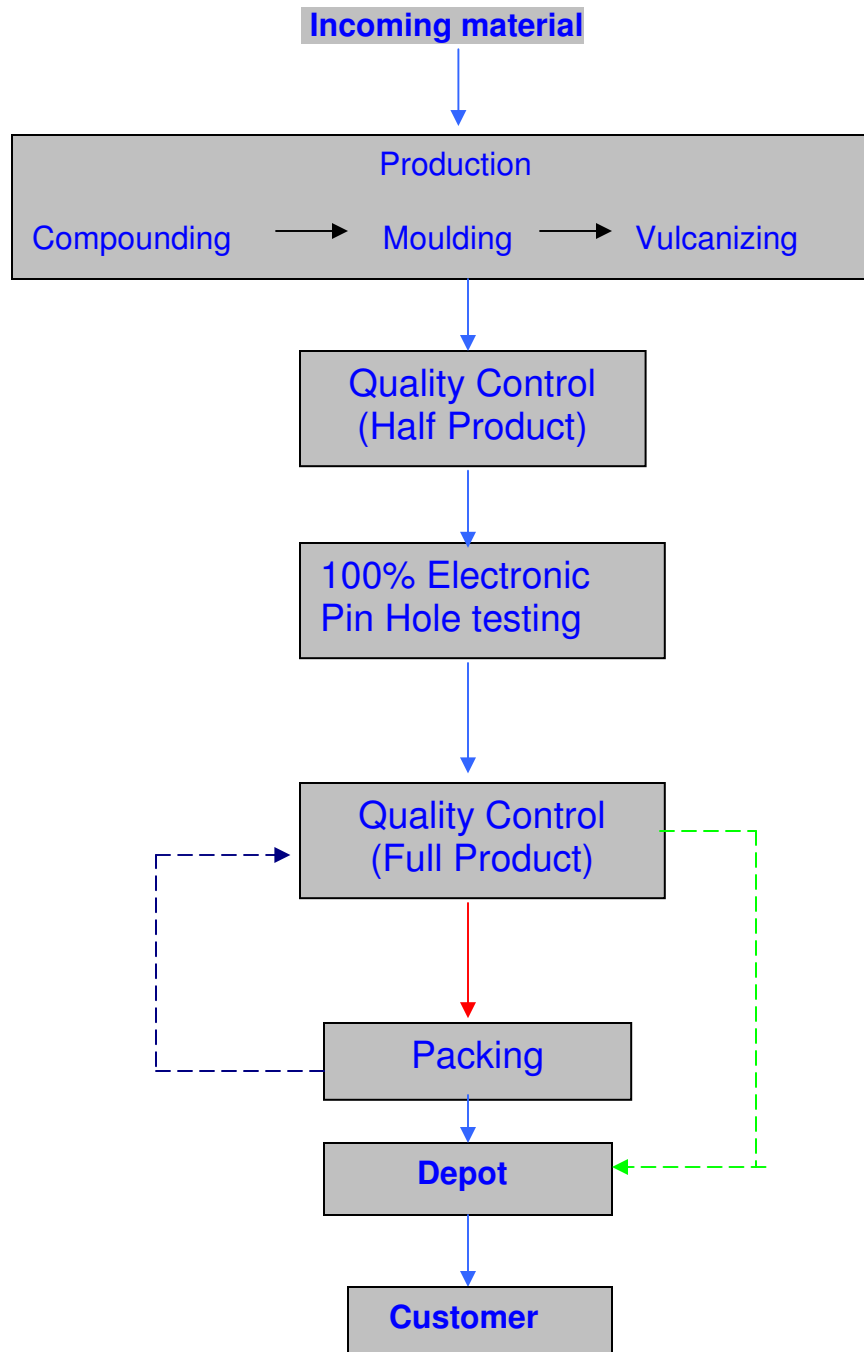
| CERTIFICATES                 | CERTIFYING BODY                                      | PRODUCTS                  |
|------------------------------|--|---------------------------|
| WHO GMP Certificate          | Govt. of Kerala,<br>Drugs Control Dept.              | Condoms                   |
| 510(k) Registration          | Dept. of Health & Human Services, USA                | Condoms                   |
| SABS Mark Certificate        | South African Bureau of Standards, South Africa      | Condoms                   |
| CE Mark Certificate          | SGS Yarsley International Certification Services, UK | Condoms                   |
| ISO 9001:2000 Certificate    | NQA QSR  | Condoms                   |
| ISO 13485:2003               | SGS Yarsley International Certification Services, UK | Condoms                   |
| ISO 14001:2004 Certificate   | RWTUV  | Condoms                   |
| OHSAS 18001:1999 Certificate | RWTUV  | Condoms                   |
| Kite Mark Certificate        | BSI Product services, U.K.                           | Moods Condoms (5 variety) |
| Tbs Mark Certificate         | Tanzania Bureau of standards, Tanzania               | Condoms                   |



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## Process Flow Chart – Condom Production-Peroorkada Factory





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## RECOGNITIONS

- ◆ AWARD FOR BEING THE TOP TEN PSE'S OF CPSU'S DURING 2006
- ◆ HLL IS AN MOU SIGNING ORGANIZATION OVER THE PAST DECADE AND HAS BEEN RATED AS VERY GOOD/EXCELLENT ALL ALONG.
- ◆ UPGRADED AS SCHEDULE B COMPANY IN 2006
- ◆ AWARDED THE MINI RATNA STATUS IN SEP 2006
- ◆ GOLDEN PEACOCK NATIONAL QUALITY AWARD FOR 2003-04
- ◆ ENTERPRISE EXCELLENCE AWARD 2003-04 FROM DEPT OF PUBLIC ENTERPRISES
- ◆ NATIONAL SAFETY AWARD FROM MINISTRY OF LABOUR, GOI FOR THE YEARS 1991,1992, 1997,1998 AND 2003
- ◆ INDIRA GANDHI RAJABHASHA SHIELD IN 2002-03
- ◆ STATE POLLUTION CONTROL AWARDS DURING THE YEAR 2005
- ◆ STATE SAFETY AWARD FROM NSC – 1990 ~ 2001, 2003, 2004,2005
- ◆ CERTIFICATE OF MERIT FOR 5S EXCELLENCE FROM CII 2005
- ◆ NATIONAL AWARD FOR EXCELLENCE IN COST MANAGEMENT FOR 2005-06 ICWAI
- ◆ CAPEXIL AWARD FOR EXCELLENCE IN EXPORT FOR 2005-06
- ◆ RECEIVED GREEN-TECH AWARD 2007 FROM M/S GREEN TECH FOUNDATION FOR EXCELLENCE IN ENVIRONMENT MANAGEMENT
- ◆ CII EXCELLENCE AWARD FOR STRONG COMMITMENT TOWARDS BUSINESS EXCELLENCE- 2007

## ENERGY COMMITMENT POLICY AND ORGANIZATIONAL SETUP

During last three years, the company implemented a number of innovative energy conservation projects/schemes and majority of which resulted in considerable savings. Continuous improvement, total employee participation and technology upgradation resulted in waste reduction, energy conservation, yield optimization and productivity increase.

HLL has its own Energy Conservation Team led by Executive Director (operations), Unit chief supported by all Controlling officers (Dept.Head) of all departments and SAFE Forum members. AGM (Engineering) acts as the co-ordinator and facilitator for energy management activities.

The Safe Forum is a scheme existing in our company to ensure involvement of people at all levels of an organization by assigning responsibility towards energy conservation, safety and environment protection.

Energy Conservation Committee attached with the safety committee and safe forum meets regularly and achieves the following objectives



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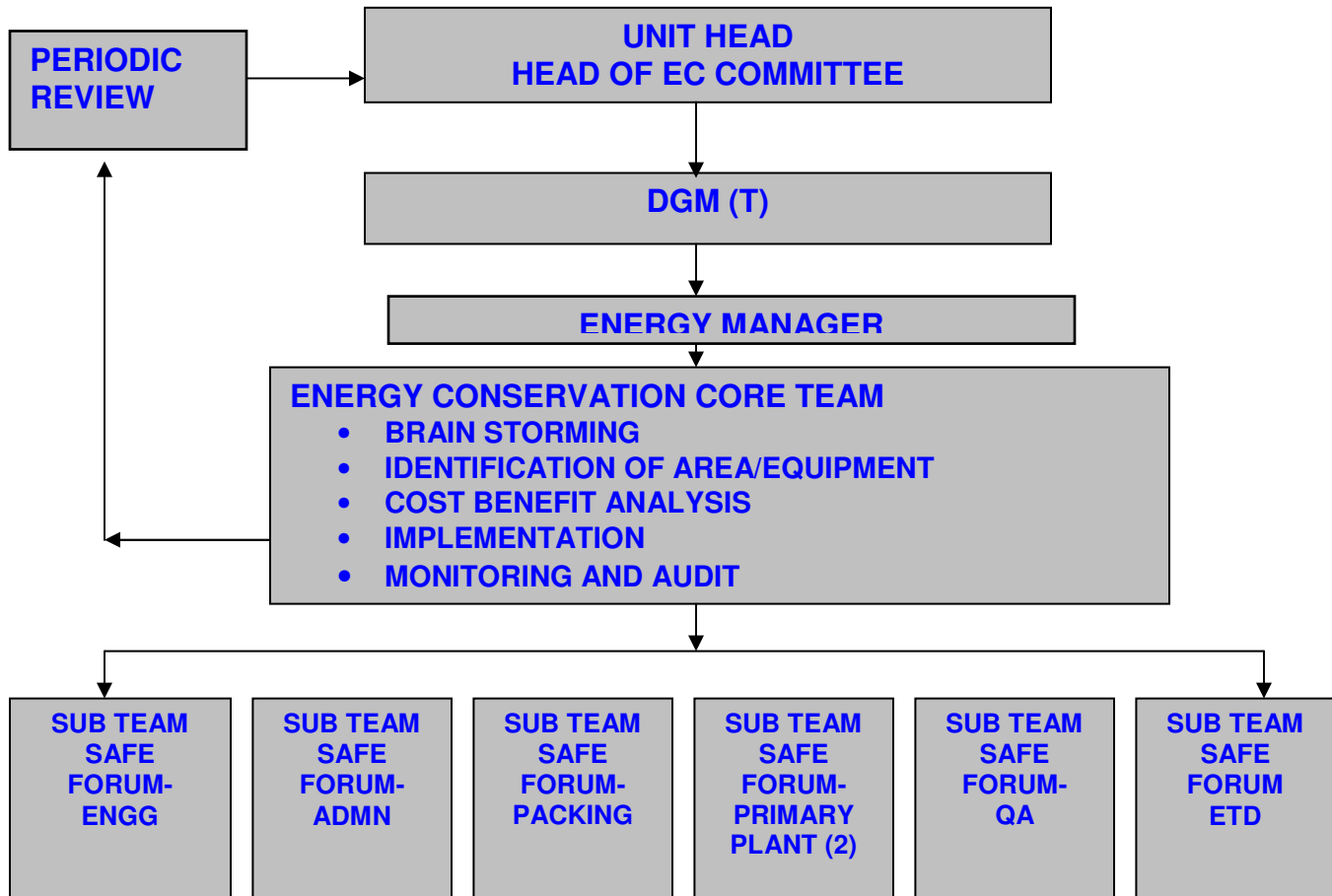
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## **OBJECTIVES OF ENERGY CONSERVATION COMMITTEE**

1. To meet the requirements of Safety/Health/Environment Policy of the Company
2. To involve in energy conservation
3. To involve the grass root levels to formal activities by ensuring recommendations of voluntary participation to ensure energy conservation.
4. To regulate the House keeping activities in which aspects of illumination, identification of switches for fans, lights, machines etc and to display stickers bearing the message to switch off the equipment whenever not in use.
5. To persuade colleagues to switch off appliances wherever not in use.
6. To bring out energy conservation suggestions and to conduct energy awareness competitions.

An officer of the concerned section titled as facilitator guides the safe forum. A leader selected by the members and deputy leaders do monitoring on objectives of energy conservations.

## **ENERGY CONSERVATION TEAM STRUCTURE**





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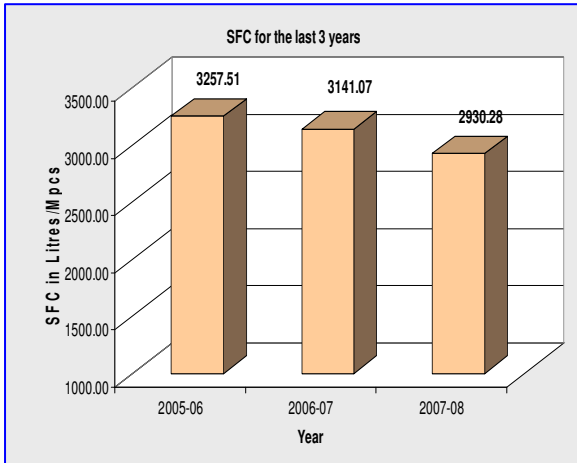
## **ENERGY POLICY (*Draft*)**

**We at HLL are committed to conserve and optimally utilize energy through:**

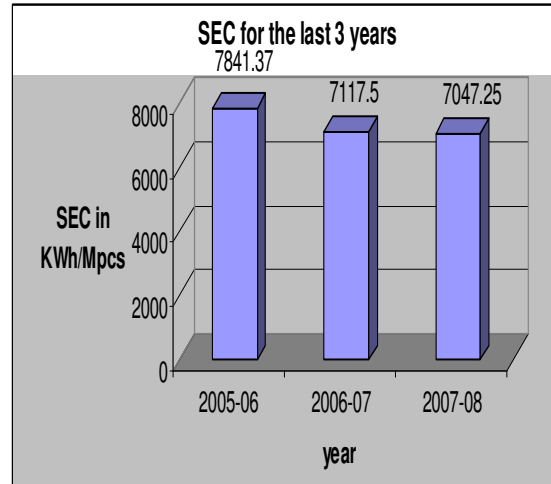
- Instilling the spirit of conservation and management of energy by creating awareness at all levels.
- Adoption of appropriate energy conservation technologies and usage of renewable energy sources.
- Focusing on energy conservation methods like capacity utilization, fine tuning, technology up gradation and maintenance of operations.
- Encouraging participation and recognizing and rewarding of energy conservation programs and initiatives.

## ENERGY TRENDS:

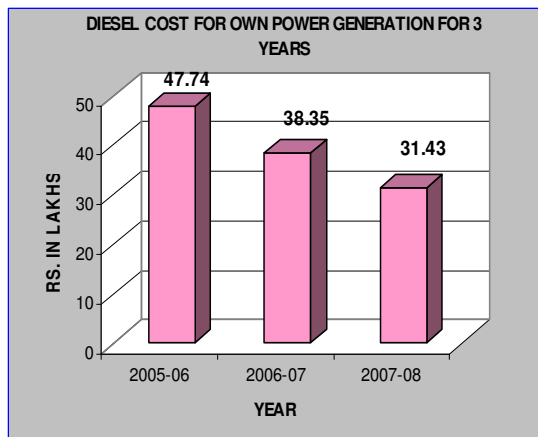
### 1.SPECIFIC FUEL CONSUMPTION



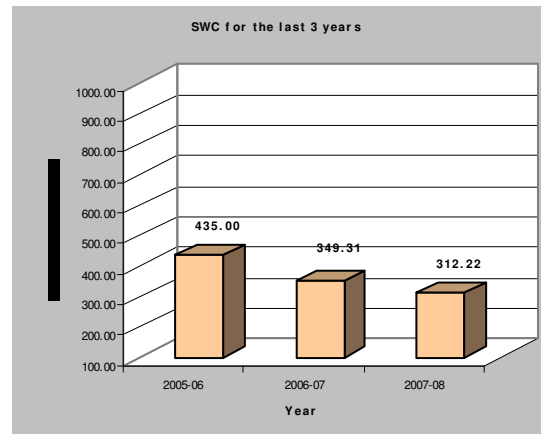
### 2.SPECIFIC ELECTRIC CONSUMPTION



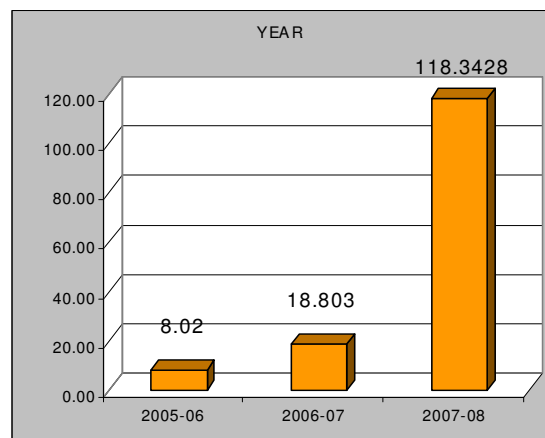
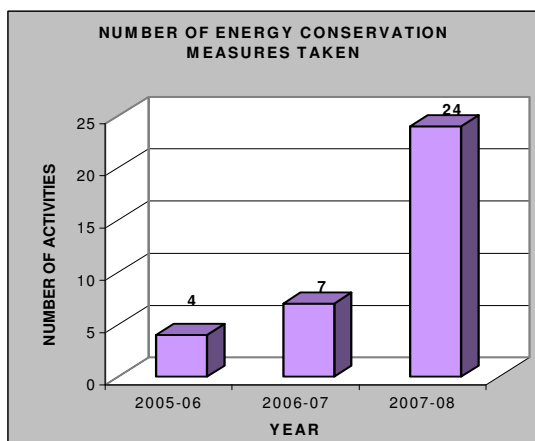
### 3.DIESEL COST



### 4.SPECIFIC WATER CONSUMPTION



### 5.ENERGY CONSERVATION MEASURES & SAVINGS





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## ENERGY CONSUMPTION

| Description                                 | Unit                  | 2005-06 | 2006-07 | 2007-08 |
|---|-----------------------|---------|---------|---------|
| Annual Condom production                    | Million Pieces (MPcs) | 844     | 878.54  | 898.08  |
| Total Electrical Energy Consumption / Annum | Lakh KWH              | 66.18   | 62.50   | 64.86   |
| Specific Energy Consumption - Electrical    | KWH /MPcs             | 7841.37 | 7117.50 | 7047.25 |
| Total Thermal (Furnace Oil) Consumption     | MKCals                | 25685   | 25469   | 26453   |
| Specific Fuel Consumption- (Furnace Oil)    | MKCals/ MPcs          | 31.41   | 30.41   | 28.37   |



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## ENERGY CONSERVATION ACHIEVEMENTS

### 1. Installation of energy efficient screw chiller:



Replaced old and inefficient chiller with energy efficient screw chiller resulting an annual savings of Rs 21 Lakhs/Annum.

### 2. Replacement of Old DG by Fuel-efficient DG set:



Installed 500 KVA Fuel efficient DG set after replacing old DG set resulting an annual savings of Rs 20 Lakhs / Annum.

### **3. Installation Of Condensate Recovery System:**



Installed condensate recovery system resulting an annual savings of 31.86 Lakhs / Annum.

### **4. Installation Of Industrial UPS At Moulding Plant:**



Installed energy efficient industrial UPS for reducing production loss during supply interruption and for better quality power to load centers. This resulted in an annual energy savings of Rs. 5.35 Lakhs and Rs 15 Lakhs savings by means of reduced wastage.

## PROJECTS IMPLEMENTED FOR THE ENERGY CONSERVATION DURING 2007-08

| SINo. | Description   | (Lakhs (kWh) | F.Oil (KL) | Total (fuel) in KL) | Total savings in (Rs. Lakhs) | Investment incurred on the project (Rs. Lakhs) |
|-------|---|--------------|------------|---------------------|------------------------------|--|
| 1     | Installation of Energy efficient UPS system in Moulding machine and boiler - Productivity improvement                               | 1.260        |            |                     | 20.350                       | 51.000   |
| 2     | Maintaining better power factor at substation including the additional load and thereby achieving an annual incentive from KSEB.    |              |            |                     | 2.77                         |  |
| 3     | FRP cooling tower fan introduced in 4 nos of Cooling Towers - Savings in Power by 36.8 %  | 0.290        |            |                     | 1.17                         | 1  |
| 4     | Replacement of electrically heated dehumidifier with steam heated dehumidifier in Moulding plant A                                  | 1.650        |            |                     | 6.6                          | 10.7   |
| 5     | Replacement of electrically heated tumblers with steam heated tumblers in RRT moulding vulcanizing in plant B                       | 2.000        |            |                     | 4.680                        | 5.000  |
| 6     | VFD and Centralized monitoring and control through touch screen in all main drives of Moulding machines                             | 1.100        |            |                     | 4.100                        | 7.700  |
| 7     | Replaced 36 nos of 40W florescent tube by 18 W CFL in the primary plants A,B and C  | 0.115        |            |                     | 0.480                        | 0.080  |
| 8     | Replaced 4 nos of 250 Watts sodium vapour lamps by 4 sets of 144 Watts CFL in the Packing section ,Electrical section and main gate | 0.027        |            |                     | 0.116                        | 0.030  |
| 9     | Derating of 1 No of 30KW motors of the dust collector by 15 KW motor in Plant B   | 0.840        |            |                     | 3.570                        | 0.250  |
| 10    | Replacement of silica gel drier with refrigerator type efficient air drier in compressors.  | 0.158        |            |                     | 0.670                        | 2.160  |
| 11    | Conversion of conventional V belts into energy efficient flat belts in compressor No.2 (75 HP) and AHU's                            | 0.350        |            |                     | 1.500                        | 0.500  |
| 12    | Replacement of conventional 40W florescent tube with 28W T5- tube   | 0.012        |            |                     | 0.050                        | 0.100  |

| SINo. | Description  | (Lakhs (kWh)    | F.Oil (KL)    | Total (fuel) in KL) | Total savings in (Rs. Lakhs) | Investment incurred on the project (Rs. Lakhs) |
|-------|--|-----------------|---------------|---------------------|------------------------------|--|
| 13    | Replacement of inefficient reciprocating chiller with energy efficient screw chiller   | 5.02            |               |                     | 21.000                       | 55.000   |
| 14    | Installation of solid state relays in place of conventional air break contactor for heater.  | 0.127           |               |                     | 0.540                        | 0.120  |
| 15    | Installation of condensate recovery system including flash vessel, trap module ,pressure powered pump etc.                                   |                 | 144.000       |                     | 31.860                       | 90.000   |
| 16    | Installation of online monitoring system (EffiMax 2000) in Boiler.   |                 | 9.000         |                     | 2.000                        | 2.500  |
| 17    | Installation of automatic blowdown control system to avoid blow down losses  |                 | 15.800        |                     | 3.500                        | 1.500  |
| 18    | Replacement of the existing single pass heat exchanger with multipass heat exchanger in moulding machine.                                    |                 | 0.760         |                     | 0.170                        | 0.500  |
| 19    | Installation of pressure reducing valve in low temp steam area in moulding plant   |                 | 4.200         |                     | 1.000                        | 1.000  |
| 20    | Replacement of existing old diesel generator set with energy efficient DG set.(500 KVA)  |                 |               | 53.000              | 20.000                       | 40.000   |
| 21    | Installed and commissioned 87 nos of Turbine Air Ventilators in Plant  | 1.050           |               |                     | 4.900                        | 7.000  |
| 22    | Installation of solar traffic signaling with LED blinking system in the company premises near to the road                                    | 0.028           |               |                     | 0.117                        | 0.260  |
| 23    | Installation of Bio gas plant by using ETP and Kitchen waste.  |                 |               |                     | 1.5                          | 3  |
| 24    | Designed and installed rubber roller unit instead of Nylon brush in ETD machines in order to improve rolling - Savings - Rs 6.07 lakhs /year |                 |               |                     | 6.05                         | 0.81   |
|       | <b>Sub Total</b>   | <b>12.76651</b> | <b>173.76</b> | <b>53</b>           | <b>118.3428</b>              | <b>229.21</b>                                  |



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## ENERGY CONSERVATION PLAN & TARGETS

|   | Energy Conservation Measures (Planned)   | Anticipated savings    |            | Approx. investment (Rs.lakhs) | Project Commencement & Completion year |
|---|--|------------------------|------------|-------------------------------|--|
|   |  | Energy Value(Lakh KWH) | (Rs Lakhs) |                               |  |
| 1 | Effective energy monitoring control and measurement system                                   | 0.364                  | 2.000      | 3.500                         | 2008-09                                |
| 2 | Installation VFD in ,AHU's ,chilled water secondary pumps.                                   | 1.273                  | 7.000      | 10.000                        | 2008- 2010                             |
| 3 | Lighting system-Replacement of existing lamps with energy efficient lamps, reflectors        | 0.227                  | 1.250      | 3.000                         | 2008-09                                |
| 4 | Replacement of existing inefficient air compressor by energy efficient Air compressor        | 1.091                  | 6.000      | 15.000                        | 2008-09                                |
| 5 | Replacement of inefficient motors with energy efficient motors.                              | 0.364                  | 2.000      | 2.000                         | 2008- 2010                             |
| 6 | Upgrading the insulation of chilled water system and steam system                            | 16.67 KL furnace oil   | 5.000      | 5.000                         | 2008 to 2010                           |
| 7 | Replacement of conventional gear boxes by planetary gear box in high power rated gear boxes. | 0.182                  | 1.000      | 2.000                         | 2009-10                                |
| 8 | Trimming and replacement of process/utility with energy efficient pump.                      | 0.364                  | 2.000      | 2.500                         | 2008 to 2010                           |

|    |  |                          |        |        |              |
|----|--|--------------------------|--------|--------|--------------|
| 9  | Replacement of inefficient boiler by energy efficient boiler with Air preheater.   | 266 KL<br>furnace oil    | 80.000 | 95.000 | 2008-09      |
| 10 | Replacement of all V Belt drives above 5 HP with Flat Belt drives in Blowers,AHU's etc   | 0.727                    | 4.000  | 3.000  | 2008-09      |
| 11 | Installation of solar water heater-in canteen of capacity 3000 LPD for cooking purpose   | 8.3 KL of<br>furnace oil | 2.500  | 4.500  | 2008-09      |
| 12 | Continuous monitoring control and measurement of all process parameters.<br>Automatic moulding machines using SCADA.                 |                          |        | 4.500  | 2008-09      |
| 13 | Installation of solid state per day (SSR) for heating in all packaging machines.   | 0.409                    | 2.250  | 1.250  | 2008 to 2010 |
| 14 | Design and installation of solar Air preheater using solar panel for vulcanizing tumblers in plant B                                 | 26.67 KL<br>furnace oil  | 10.000 | 8.720  | 2008-09      |
| 15 | Installation of pressure reducing valves (PRV)s in all low temperature heating applications in the plant                             | 13.33 KL<br>furnace oil  | 4.000  | 4.000  | 2008-09      |
| 16 | Installation of Bore well and open well to effectively utilize ground water.   | 20000 KL<br>of water     | 5.000  | 5.000  | 2008/09      |
| 17 | Replacement of old transformer by energy efficient transformer with OLTC facility as a part of Augmentations:-                       | 0.909                    | 5.000  | 25.000 | 2008 to 2010 |
| 18 | Installation of energy efficient multipass heat exchanger in preheater and vulcanizing machine instead of single per heat exchanger. | 10 KL<br>furnace oil     | 3.000  | 2.500  | 2008-09      |
| 19 | Derating of Dust collector motor at the moulding plant C from 40HP to 15HP thereby saving 4 units/yr(approx)                         | 0.064                    | 0.350  | 3.500  | 2008/09      |
| 20 | Replacement of existing inefficient process chillers with energy efficient screw chillers with VFD.                                  | 2.727                    | 15.000 | 25.000 | 2008 to 2010 |
|    |  |                          | 157.35 | 224.97 |              |



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### **OTHER PROJECTS IMPLEMENTED DURING 2007-08**

- Fuel efficient and low emissive forklift.
- Replacement of ball mill unit with latest attritor mill in compounding area.
- Lower ratio cyclo reducer at moulding machine for productivity improvement.
- Fully automated foil-printing machine installed at Primary Packing section.
- Higher capacity cooling towers installed to improve the efficiency of the refrigeration system.
- Improved fire & safety and fire evacuation systems.
- Imported foiling machine with automatic feeding mechanism.
- Inhouse developed auto feeding foiling machine.
- Prevulcanised latex storage and handling systems in order to improve the quality of the rubber products.
- Space optimization using vertical rack system at stores.
- Effluent treated water for gardening and washing purposes.
- Introduced pneumatic cutting mechanisms in packing machines.
- Energy saving achieved by applying process water in the first 30 minutes in the compounding mixing tank instead of chilled water for cooling from 55 degree C to 30 degree C.



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## ENVIRONMENT AND SAFETY

The company's commitment towards safety, health and environment is based on its policy which emphasis on business growth and responsibility towards safety and environment.

Safety, health and environment are being continuously enhanced through appropriate budget provisions, safety audit, risk analysis, monitoring and measurement, health check up of all employees.

### SAFETY

The company has well-established safety, occupational and environmental policy that ensures safety of the public, employees, plant and equipment. The Peroorkada plant comply with all statutory rules and regulations basis, imparting training to its employees as per the training calendar, carrying out statutory safety audits of its facilities as per legal requirement, conducting regular medical check up of its employees and promoting eco friendly activities. The plant has been certified for occupational health and safety management system, ISO 14000:2004 and also been certified for occupational health and safety management system, OHSAS 18001:2005. Peroorkada factory is the recipient of safety awards from the national safety council

Hazard identification and risk assessment is carried out in the plant, which has resulted to identify proactively the potential risk and methodology to control SH&E performance in an ongoing manner. Various measures have been taken to avoid the fire hazard like installation of heat & smoke detectors, sprinkler system and fire hydrant system etc in the plant.

Safety week has been celebrated from 4<sup>th</sup> to 11<sup>th</sup> March. Competition on safety slogan / poster / suggestion competition was conducted during safety week and winners were awarded. Inter plant and inter department fire fighting competition was organized in the plant and winners were awarded.

## **ENVIRONMENT**

The company strives to enrich the environment wherever possible by various initiatives such as air pollution management, waste water management, solid waste management and afforestation activities. Various management programs that were carried out:

## **ACTIVITIES**

- Constructed secured landfill as per CPCB guidelines
- ETP sludge is approved as a non hazardous waste by CPCB based on studies made by College of Agriculture; Vellayani proving that sludge is having the qualities of manure.
- Waste condoms after shredding is sold for manufacturing chappels.
- Silica sludge after drying is disposed for land filling purpose, manure application and manufacture of bricks.
- Installed filter press to reduce the ETP silica sludge load.
- Recycling treated effluent water for gardening purpose.
- Rainwater harvesting facility provided at the roof of commercial block.
- Acoustic Insulation for diesel generators to reduce noise level.
- Using eco friendly refrigerant for air conditioning equipments.
- Battery operated forklift instead of Diesel forklift.
- Reduction in scrap generation in production units.
- Use of corrugated boxes in place of card board boxes for packing purpose

The company has installed effluent treatment plant since its inception stage and presently expanded to handle up to 1000 KL effluent / day. The quality of treated effluent water meets the stipulations of KSPCB. The Peroorkada Factory is a recipient of Green Tech Award 2007 from M/s Greentech foundation for excellence in environment management and Pollution Control Award from KSPCB during 2008. Environmental day is celebrated every year on 5<sup>th</sup> June consisting of various competitions for employees; technical talks are also arranged along with the event



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**ENVIRONMENT INITIATIVES/ ACHIEVEMENTS**



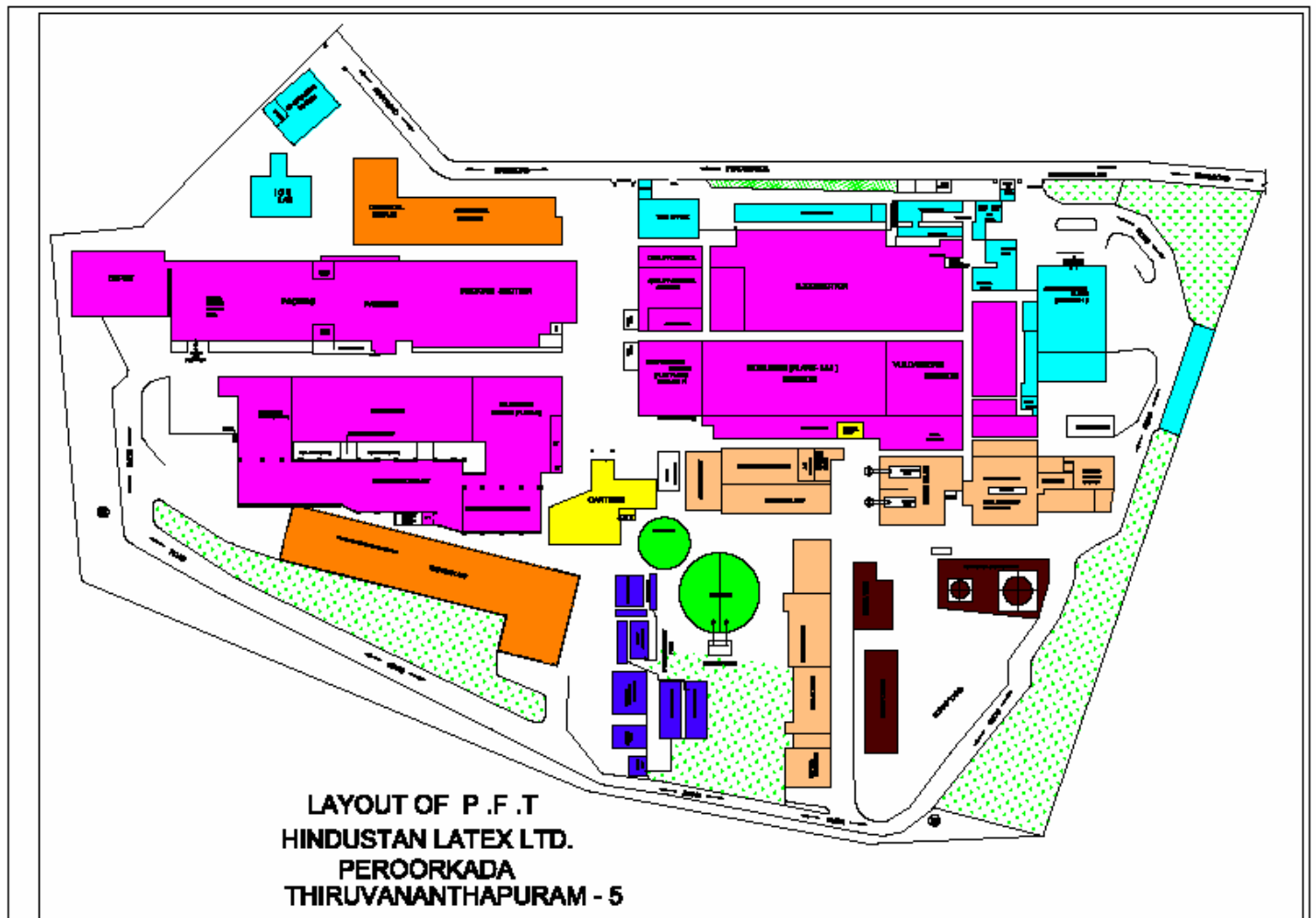
**AWARENESS PROGRAMME ON THE BIO DIESEL PLANT-JETROPHA IN CONNECTION WITH THE ENVIRONMENT WEEK –2007**



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## LAYOUT OF PEROORKADA FACTORY, TRIVANDRUM (PFT)





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### COMMUNITY WELFARE PROGRAMME

- ◆ A charitable institution namely-VALSALYA run by elected employees of HLL and supported by HLL management is in place

#### Hospitals, Peroorkada

- ◆ Rehabilitation for the patients of mental hospital, Peroorkada,
- ◆ Providing food and clothes to the patients of the hospital.
- ◆ Engaging in the house keeping activities of the hospital.
- ◆ Provided bread making unit and water cooler exclusively for the hospital.
- ◆ “Onam Sadya” to the in-patients along with Valsalya team.
- ◆ Monthly feast.
- ◆ Engaging in the cleaning activities of the Govt Peroorkada hospital and nearby surroundings.
- ◆ Distributing “Onapudava” during Onam celebrations to the nearby residents.
- ◆ HLL contributed Rs 2 Lakhs to Kerala Enviro Infrastructure Ltd. for construction of common TSDF.

#### FOR NEARBY SCHOOLS

- ◆ Provided computers, computer tables with chairs.
- ◆ Awareness given to students on biodiesel, controlled use of plastics proper disposal of waste and energy conservation.
- ◆ Provided benches, desks and maintains it.
- ◆ Distributing uniforms to the poor children of the locality
- ◆ Company has participated in the Clean City Green City campaign in Thiruvananthapuram by donating waste bins.
- ◆ Conducted a survey and based on the observations, a medical camp for the poor people of the nearby locality.
- ◆ Employees of HLL participated in the blood donation campaign and provided blood to blood bank

#### SOCIAL & CULTURAL PROGRAMME

- ◆ HLL assist in various cultural, sports and educational activities and promotes cultural activities by giving financial support.
- ◆ HLL has set up a cultural function named Sargasangamam where all the manufacturing companies in Kerala participate and compete.
- ◆ “O” level certificate through Kerala State Literary Mission.
- ◆ AIDS awareness campaign on AIDS Day was carried out which included street skit, rally, pledge, badge wearing, school level competition on logo, painting, essay competition etc

**RENOVATED THE KOWDIAR PARK AND HAS UNDERTAKEN THE MAINTENANCE.**

**Renovated the Kowdiar Park and has undertaken the maintenance**



**Biogas plant of 25-m<sup>3</sup> capacities for utilizing the canteen wastes and the biogas is being used in our canteen. Solid waste from the biogas is used for manuring the garden plants and plants in the estate.**

## COMMUNITY WELFARE PROGRAMMES-SMRITHIVANAM (AFFORESTATION ACTIVITIES)

