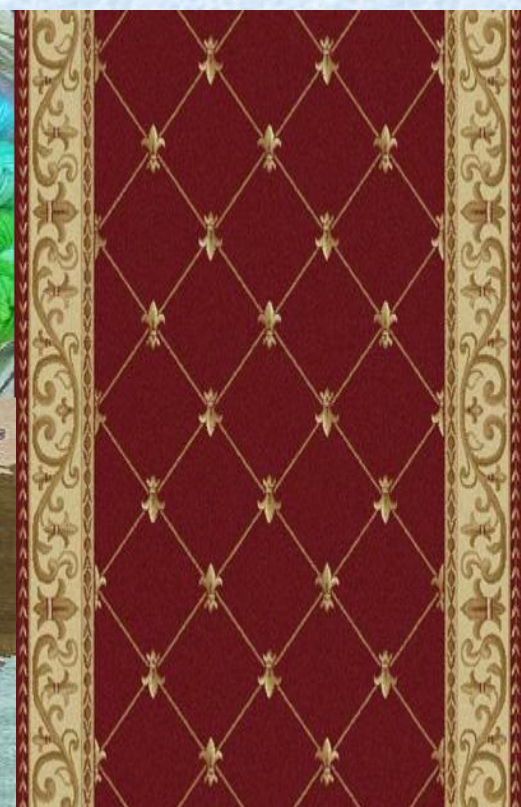


ENVIRONMENT STRATEGY



Prepared By:
Environment Manager

Review By:
Partner





**Empower people
to efficiently utilize energy**

**Go green
grow clean**

**Nurture talent
build leaders**

**Innovate
to conserve**

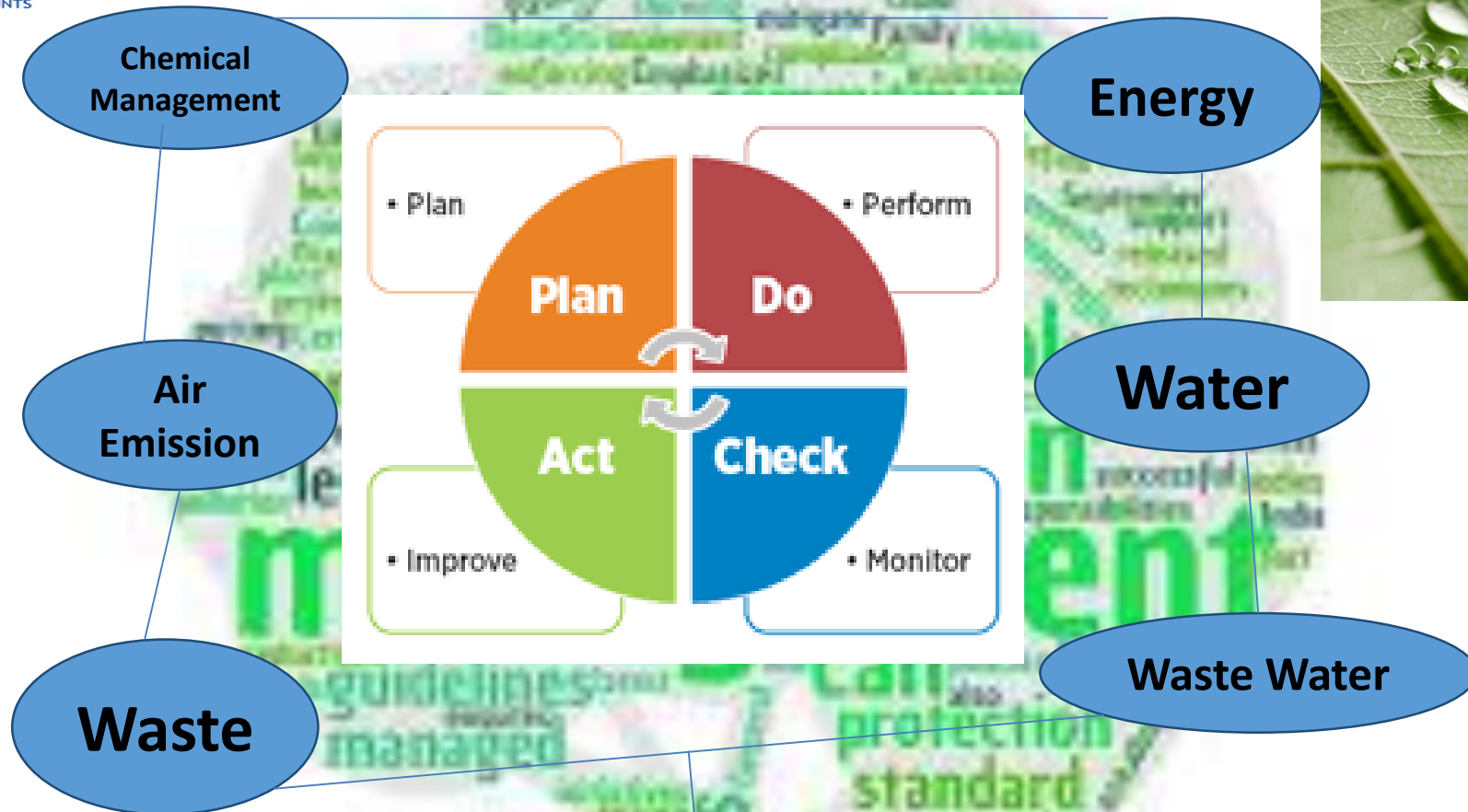


**WATT IS
SAVED**



**MAKE SAFETY A
PART OF WORK
CULTURE**

**RAJ WOOLLEN INDUSTRIES:
HOME FURNISHING HUB**



100% Legal Compliance

Message from the partner

- RAJ Woollen Industries is an organization with a rich legacy of responsible stewardship. While, it is built on a strong foundation of time tested values, it continues to remain modern in both outlook and decisions.
- Keeping pace with the accelerated need for sustainability across the globe, we took large and rapid strides to make our operations more sustainable.
- It is this synergy of age-old wisdom, modern management practices and new-age technology that has steered RAJ successfully through its sustainability journey and helped it deliver on its vision of 'enriching lifestyles.'
- **RAJ Group, Energy** is one parameter that is crucial for achieving almost all of the Sustainable Development Goals .
- RAJ is committed towards the reduction of carbon foot prints and we are achieving this reduction of energy through these steps
 - A) Installation of VFD Drive
 - B) Installation of LED lights
 - C) Installing energy efficient motor's
 - D) Optimization of Boiler Blow Down
 - E) Reutilizing of ETP Treated Water in Horticulture and Floor Washing Activities
 - F) Pressure optimization of air compressor and conducting free air delivery test
- Raj Woollen Industries is committed to reduce the environmental impacts by regularly training and guidelines for all the employees for reducing the water and carbon foot prints.



Company Profile

- Raj Group of Industries is involved in manufacturing of floor covering and home furnishing items. To carry on the production process i.e. Dyeing, Printing, Weaving / Tufting. It's the necessity of using a variety of resources various raw materials (Woollen, Cotton, Polyester & Nylon etc.) packing & finishing materials, consuming following 3 types of energies Fossil Fuel, Electricity, Thermal Elements, Water & usage of Dyes & Chemicals etc. and at last manufacturing processes itself also always have an impact on environment. As an aftermath of production processes many types of wastes are also produced.
- Our Partners (Deepak Nath, Anil Nath, Ajay Nath and Sumeet Nath) have clear "VISION 2020" that Raj Group of Industries will be the safest place to work with Minimum Environmental Impact by controlling various aspects of Environment. Thus, our organization firmly believes that, it is the paramount importance for every organization not only to formulate a responsible environment policy, but also an action plan for its effective and time bound implementation. So that the mitigation of adverse or negative impact will reduce.



Environment Policy

The group is consistently working with the environment improvement and has authorized an environment policy

Protection of environment is of prime concern & a core business value at RAJ WOOLLEN. With a leading role in manufacturing & export of rugs & other floor covering items. RWI is conscious of its responsibility towards the need of communities in which it operates its business by creating, maintaining & ensuring a safe and clean environment for sustainable development. Hereby commit as under:-

To minimize the environmental impacts concerning our activities, products and services, we shall.

1. Comply with applicable legal requirements and other requirements to which the company subscribes which relates to its environmental aspects.
2. To Works on three R which are Reduce, Recycle and Reuse & Continual Improvement in environmental performance.
3. Conserve the natural resources by the responsible and efficient use in all our operations.
4. Promote the training and awareness among all employees through induction and periodic training.
5. Communicate this policy to all interested parties.

The policy will be widely communicated with in the plant and shell be available to public through company website.

For
Raj Woollen Industries

Partner



Sustainability and Us

AR Indian home furnishing expo

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READ MORE ON » Home Furnishing | Sustainability News India | ZLD

Panipat (India)-based Raj Group, a leading home furnishing exporter is aggressively working on the sustainability front. The company is investing in sustainable initiatives which includes zero liquid discharge (ZLD) facility and more use of various kinds of cotton in its wide range of products.

Sumeet Nath, Managing Partner of the company told *Apparel Resources*, "We are open in terms of sustainability budget. In the coming year, we are setting up a 500 KLD plant for ZLD, to increase use of recycled cotton, BCI cotton and GRS cotton in our products. This will help us grow our business."

Also Read – Arvind Ltd.'s first sustainability report leaves no stone unturned

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ENERGY

WATT IS SAVED

EVERY WATT IS SAVED IS EARNED WATT

Ecological imbalance, rapid pace of progress, increasing energy costs, and spiraling health issues - the implications of use, overuse, and abuse of energy are not just hindering the environment but also the business and the society.

At RAJ, we believe that energy is both an enabler and a bottleneck for business growth. While it largely remains as an inimitable resource, the demand-supply deficit may cause hiccups in the long-term business continuity.

Over the years, we have been successful in improving our energy productivity by investing in energy efficient processes and practices. The aim is to entrench a 'continuous conservation culture'.



Energy



3955.2 kWh saved annually by LED Lights installation



**20%-(DIRECT+INDIRECT) AT
RAJ WOOLLEN INDUSTRIES**



**371KWH saved annually
by optimizing the
compressor pressure**



**62400KWH saved annually
by installing VFD Drive in
Cotton dyeing machine**



We have put in practice a business-wide Energy Policy with a commitment to continually improve the energy performance of all units of Raj. Objectives and targets are being set and reviewed to maximize the outcome of every unit of energy consumed. To ensure effective implementation of this policy, we have also instituted the Energy Conservation

OUR ENERGY STRATEGY 'LESS WATT PER KGS'

This approach manifests into multiple tangible benefits.

- 1.Enhanced productivity.**
- 2.Reduce emission.**
- 3.Decrease cost.**



At RAJ, Energy productivity focuses on achieving greater economic output from each individual unit of energy. This helps achieve the dual objective of de-linking economic growth from commensurate growth in our environmental footprint.

CONSUMPTION

ENERGY

At RAJ, we primarily depend on energy in three forms: Pet Coke, electricity and Liquefied Petroleum Gas (LPG) and Diesel. Accordingly, we measure the energy consumption of our operations in two broad categories:

Direct Energy

The energy we generate ourselves through combustion of fuels such as Pet Coke and LPG, Diesel

Indirect Energy

The electricity we purchase from the grid



Energy and Carbon Emission Management

To improve the environmental performance of our organization and the RAJ's physical infrastructure by moving towards carbon neutral energy performance, adopting environmentally conscious procurement practice, promoting renewable energy systems.

x To ensure that all development and refurbishments go beyond current legislation and utilize environmental best practice where practicable, whilst seeking best value for the Raj at all times

Strategic target:

x To reduce carbon emissions from energy use by 20% by 2020 against the a 2016 baseline

Key Performance Indicators:

- x *Energy consumption per m₂/Kgs.*
- x *Total emissions for energy – carbon reduction achieved*
- x *Percentage of renewable electricity*

Key method implemented:

- x LED & VFD installation.
- X Maintaining Power Factor and Automatic machines installation.
- LPG gas usage starts.



Waste and Recycling

- The Raj Group has very much concerned about the Waste and disposal and Raj provides training for all employees as well special training provides for Maintenance and Custodial Staff for Waste types and its minimization and segregation at the time of storage ,transport and disposal.
- Recycling in the home environment is very much the norm, as such both our staff and employees expect to be able to recycle at their place of work, and currently we offer facilities to be able to recycle a number of waste streams like we are giving the waste paper and Gatta to recycler for making egg trays and Hazardous waste sends to GEPIL.
- The Raj Group sets the Following targets
- To reduce the Textile Cutting Waste by 10% from 2016 to 2020.
- To recycle all the Non-Hazardous waste by 2030.
- To reduce the ETP Sludge by 25% relative to 2016
- Over the last few years we have seen significant improvements in our recycling rates, from 4% in 2017/18
- , with a target of 100% set for 2030.
- **Strategic Aim:**

x *To minimize and actively manage through elimination, reduction, reuse and recycling.*

Strategic Objectives

- *To minimise and actively manage waste through elimination, reduction, reuse and recycling x To promote management systems which reduce the production of potential waste materials x To encourage the use of 'recycled' products where appropriate*
- x *To promote purchasing and development processes that give due consideration to the true cost of waste*
- x *Review all waste streams and work to minimise waste generation, maximise recycling and minimise unnecessary consumption*

Key Performance Indicators:

- x *Waste mass generated per kg/ m2*
- x *Recycled waste proportion %*

CHEMICAL MANAGEMENT

The Raj Woollen Industries has very much concerned about the chemicals and chemical management and Raj Woollen decrease the chemical consumption by providing training to employees.

Raj Woollen Industries collaborated with ZDHC & BV-Environment Emission Evaluator and working for green chemistry so usage of green /positive list of chemicals that brand provides us.

Strategic Aim: To increase the usage of positive list of chemicals from 2% to 30% by 2020 relative to 2016.

Strategic Objective:

- To get the safer chemical for worker as well as environment.
- To reduce the environment impacts.
- To replace the hazardous chemical with the positive list of chemicals.

• KPI Indicator:

- Positive usage check with the inventory.
- Checking the chemicals with Incheck report of clean chain.



EMISSIONS

The textile industry accounts for 20% of global carbon emissions. As an integral part of this industry, we assume our responsibility towards restricting emissions by enhancing the energy efficiency of our processes as well as investing in low-carbon technologies. The nature of our operations is such that we only produce carbon dioxide. Over the years, a focused drive to improve the efficiencies of our operations has resulted in managing emissions to a significant extent



Water:

DEMONSTRATION IS THE BEST FORM OF ADVOCACY

Water is an important resource in textile production. The textile Industry ranks among the top ten water consuming industries, and natural fiber processing has a larger water footprint than artificial fibers.

We understand that water is not something that can be completely substituted in the manufacturing process in the foreseeable future, but it can be consumed more judiciously and responsibly.

To optimize our water foot prints we do such things as under:

1. We use the water wisely.
2. Efficiently utilize the water and recycling.
3. Optimize the process usage.
4. Reuse the water after treatment.
5. Leakage in pipes and tanks arrested on time.



Raj Group has concerned about the importance of water and its importance and has done so many conservation initiatives like Water delivery test and reusing of ETP treated water and RO Plant reject water.

Raj Group trains all its employees with the help of Water Saving Videos and Quarterly training has been provided by the Facility/Environment Manager for the minimizing the water consumption.

At Raj Woollen Industries Plans to reuse its all the Waste water through the ZLD from 2016 to 2020 and sets the target for reuse all the waste water after process.

All other Raj group Units coming with the usage of RO reject and Sub-metering for minimizing the Water losses.

Aim:

To conserve water through efficient use and reusing.

To follow all the Legal and Legislative requirements.

Target:

To reduce water consumption by 30% by 2020 against a 2016 baseline.

To recycle 100% of ETP treated water with RO Plant. (ZLD).

Key Performance Indicators

Total water consumption(m3)

Total Water consumption per Kg/Sq.Mtrs.

Key Implementation mechanisms:

Reusing of ETP treated water in Horticulture and Boiler Stack

Recycle ETP treated water with RO Plant(ZLD)

Reusing of RO reject water in process again.

Installation of Push Cock and Aerated Taps.

Training for Water Conservation.



Effluent Management:

Over the years due to persistent efforts and newer initiatives, we have achieved a consistent rise in the recycling and reuse of wastewater in various processes across our plants and this year we plans to install Zero Liquid Discharge(ZLD) and plans to recycle whole of the plant waste water after treatment.

Till date we are using 60KL of the water in the Dyeing Process and ETP treated water be reused in Boiler Stack, Horticulture and Floor cleaning activity.

We are efficiently maintaining our waste water quality by regular testing and doing the preventive maintenance and dose more efficiently by doing JAR test .



Travel and Transport

Raj Group has trains all the employees for green vehicles usage within the Employees we well as Workers and Workers are so motivated so the usage of Cycle increasing for Local travel and organization starts using the Environment Friendly E-Rickshaw. The overall aim of this project is to increase levels of cycling amongst workers and staff and increase awareness of the benefits of cycling amongst workers and staff

Strategic Aim:

To actively promote and encourage the use of sustainable modes of transport across the Organization, acknowledging business needs.

To facilitate the active participation of the Raj community in reducing the collective environmental impact of the organization, through both formal and informal activity; To foster a culture of environmental citizenship within the Raj Community.

Targets:

At least 20% of employees to be regularly commute by Clean & Sustainable mode of travel by 2016 and by 2020 atleast 50% of employees commute in sustainable way.

Objectives:

- x *To increase transport choice and use clean vehicles like E-Rickshaw and Cycling*
- x *To reduce single occupancy car use, promote alternative and non-travel options and reduce associated emission.*
- x *To reduce the carbon footprint or environmental impact of business travel where applicable.*

Key Performance Indicators:

- x *Fuel consumption by vehicles within the factory travel.*

Key Method implemented:

. Key Performance Indicators:

- x *Energy Saving calculation of new product*



Procurement

The Raj Group is committed to sustainable procurement. Purchasing decisions have major socio- economic and environmental implications, both locally, nationally and globally, now and for generations to come.

The Raj Group has developed a Sustainable Procurement Policy that links to the wider Corporate Social Responsibility Agenda and the objectives below are an integral part of that wider policy.

Strategic Aim:

- x *To act in a sustainable environmentally responsible way*
- x *To analyze the product while purchasing for its environmental impacts like its Energy Consumption and Water Consumption and Waste generation etc*

Targets:

To procure all items while analyzing the resource consumption by 2020

Objectives:

- x *Specify sustainable environmentally friendly products wherever appropriate*
- x *Ensure where appropriate sustainable environmental criteria are used in the award of contracts*
- x *Ensure consideration is given to the whole life costs and benefits of environmentally preferable products and services alternatives. Typically;*
 - *Operating costs including energy, water usage and maintenance*
 - *End of life costs including decommissioning and disposal*
- x *To get the Energy Saving Product rating like BEE rating etc*

Key Method implemented:

Training to all employees for transportation good use and its effects.



Awareness Training and Communication

Awareness and effective communication are key to the success of any environmental initiative. In recent years we have carried out a number of activities to increase awareness, both with the workers and staff. There are a number of channels of communication already established.

The establishment of an Environmental Committee, which aims to share all the Objectives and Targets and its action points to be implemented.

Awareness is in the Form of Posters and Slogans and we has a target to take the idea from the workers level and implement its conservation practices or minimizing the losses of the system like Energy and Water losses.

Strategic Aim:

To facilitate the active participation of the Raj community in reducing the collective environmental impact of the organization, through both formal and informal activity; To foster a culture of environmental citizenship within the Raj Community

x *To act in a sustainable environmentally responsible way*

Targets:

To train all the employees about the impacts and its reduction techniques by 2018

Objectives:

Objectives:

- *To raise awareness of sustainability issues and to communicate environmental achievements to all stakeholders, both internal and external*
- *To train staff, workers and others such as contractors to ensure awareness of environmental issues and how they relate to their own personal circumstance*

Key Method implemented:

No of Employees trained in environment impacts and goals and targets.



Environment Training

We at Raj Group gives quarterly Environment training to all the employees and educate/aware them about their expected participation for sustainability.



Tree Plantation

As a part of our CRS program, to uplift the standard of eco balance as well as to minimize our carbon emission Raj Group plants trees in near by parks, road sides and barren lands.



Environment Improvement in Local Context

As a part of our CRS program, Raj Group has adopted the park in the local premises and same be appreciated by the District Collector and Local Nigam president and along with the local community and “Explains how a industry can manage and address the issues of the local community”.



Spill Prevention Training

Unplanned or uncontrolled release of hazardous chemical is an occupational hazard that is, unfortunately, a possibility in any industry that involves chemical. But like all accidents, its probability can be minimized. Even in case of an untoward occurrence, the extent of damage can well be contained if SOPs are in place.

Our Spill Management team is aimed to ensure cautious management of hazardous material spills. The policy is applicable to all departments, employees, contractors,

In addition to giving a comprehensive SOP to deal with major and minor spills, the policy also elucidates the dos and don'ts to handle spills of special chemicals like organic material, alkali and acids.



Chemical Handling Training

The objective of this training is to equip the employees with the skills and knowledge necessary to assess the hazards presented by the use of chemicals in their workplace and to be able to identify the controls required.



Management review



- Annually review of the EMS Effectiveness.
- Discussion on new compliance regulation.
- Internal audit report and it's Corrective and preventive action.
- EMS Objectives and Targets
- Review the Aspects , Impacts and it's significance.
- Summarize EMS Policy and process of continual improvement.



Contact the Sustainability Team

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