

ENVIRONMENTAL POLICY & SUSTAINABILITY PRACTICES

Fytocare Chemicals Pvt. Ltd.

As an organization deeply committed to its people, business and the environment, Fytocare Chemicals Pvt. Ltd. believes in free and fair policies. As a responsible organization devoted in bettering the environment around us, we believe that every action we take must be made consciously, keeping in mind both the short term and long-term effects of our business.

Our policies are entrenched in long-term sustenance. Our environment policy is forward thinking, with several sustainable practices that result in clean, green and ethical practices. This includes a very practical and sound environment management plan along with a plethora of sustainable practices to promote a practical day-to-day commitment to the environment.

Keeping in mind our central theme, we are committed to reducing our negative environmental impact and strive towards refining our environmental strategy. We believe that this needs to be an integral part of our business strategy and operating methods. It's natural that in an environment like this, the policy is regularly reviewed by the senior management.

Fytocare Chemicals Pvt Ltd is proud of the fact that we have consistently either met or exceeded most of the requirements of all environmental laws and regulations. Fytocare Chemicals Pvt. Ltd. uses environmentally sound practices, even in the absence of governmental standards. Interestingly, we also work with local agricultural universities in analysing environmental challenges and

developing cost-effective, scientifically based solutions and standards, which we deploy in our day-to-day operations.



Fytocare Chemicals Pvt. Ltd Founder and Chairman, Dr. Raghunath Thompson's vision has been to see that bulk of the company's land is covered by a permanent green belt of perennial trees so as to provide ample green cover.

And, this doesn't stop at the corporate level. We guarantee that every employee realizes our efforts and is responsible for including our environmental quality considerations in their business actions. We encourage,

recognize and reward individual efforts to improving environmental innovation and quality—in and outside of work.

Fytocare Chemicals Pvt. Ltd. is committed towards minimising its impact on our environment through

- Having an environmentally sustainable conscious culture, where accountability is allocated and understood;
- Being an environmentally accountable neighbour in our community;
- Preserving natural resources by reusing and recycling;
- Using, in our own procedures, actions that do not negatively affect the environment;
- Guaranteeing the responsible usage of energy throughout the organisation;
- Contributing in efforts to enhance environmental protection and understanding;
- Conducting rigorous self-assessments of the deployment of this policy;
- Growing awareness among our staff and labour – educating and inspiring them to act in an environmentally responsible manner.

Sustainable Operations (Efficient Systems)

Through the application of our sustainability practices, we will improve our efficiency, quality and productivity, which translates into doing more with fewer resources and less waste. We believe that there is always a clear relationship between operating sustainably and efficient manufacturing. Our commitment stems from the fact that we need to incorporate sustainable operations into our environmental sustainability if we need to deliver products of the highest quality. Today, we are a small, but growing organization. As we move up the path, it is important that we remain good stewards of natural resources. Across our business, we strive to minimize negative environmental impacts and risks associated with our products and operations. Compliance with environmental regulations forms the baseline at all our operations.

In lieu with our assurance to intensify our environment footprint, we have added several efficient systems and processes which will ultimately help our environmental, social and economic outcomes.

We firmly believe that only continuous improvement will keep in check and plough in our sustainable corporate strategy into viable operations, using a cohesive quality, environmental and safety management system. Sustainable operations involve quality management, sustainability, environmental stewardship and process safety.

A look at our factory premises gives an onlooker an understanding of our diversity and inclusiveness as well as environmental sustainability is concerned. We promote sustainable and efficient resource use, waste minimization, recycling, and energy efficiency.

Amongst our sustainable practices, we take immense pride in Waste Reduction and Recycling - Sustainable Water Systems, Renewable Energy, Reducing Usage of Hazardous Waste, Disposal of Toxic and Hazardous Waste, Reducing Carbon Emissions and Water intake, Responsible Consumption of Resources, Environmentally Preferable Purchasing, Zero Landfill and Adopting Green Practices

Sustainable Water Systems - Waste Water Reduction and Recycling

Our focus on how we use resources improves efficiency, creates less waste, and reduces impacts on the environment and local communities. Water is particularly significant, given its indispensable role in manufacturing and connection to energy use.

The current geological period (The Holocene period) raises a significant event - the gradual desertification of the Deccan Plateau, where Coimbatore and Fytocare Chemicals Pvt. Ltd. is located. Keeping in mind this particular warning, conservation of water and rational usage of water has been our prime concern.

This green practice therefore outweighs all other efforts among our green practices to preserve the environment for the future generations. Our actions include:

(a) The 12-14 acres surrounding Fytocare Chemicals Pvt. Ltd. is a water-shed area for the drainage of surface area from surrounding 40-50 acres. At the outset (approximately 23 years ago) in our efforts to conserve water through efficient use and management we built a check dam after purchasing this land. Our objective is to conserve the water flowing into percolate the underground aquifers. We are very particular that the drainage from our chemical plant does not join the village common drain which continuous further to join the local river – a source of water supply to the neighbouring villages. Over the

period, two borewells have been enriched so much so that even during a severe drought season, when most of the village borewells dry up, our wells continue to give copious amounts of water.



(b) Based on the geological formation, ground water condition, depth of weaker zones, soil texture, past rain fall & physiography of the area, rainwater infiltration rate is considered as 30% in 30 complete rainy days.



Fytocare Chemicals Pvt. Ltd has invested in rooftop rain water harvesting systems.



The rainwater from the roof of our most recent factory building is collected and funnelled towards the company's farm well for direct usage. Work is underway to install rain water harvesting systems in other buildings within the factory premises.

(c) Domestic waste water, which is all the water used in our factory for washing and by our 300 strong labour force is collected by a state-of-the-art sump and pumped into the sewage treatment plant.



Air pumped through diffusers reduce the Biological Oxygen Demand (BOD), removes the odour and is pumped to irrigate the forest species of trees specially planted to increase the green belt area in this region. This greenbelt has been developed in and around the factory site to minimize the air pollution, noise pollution, balancing eco-environment, soil erosion/protection.



The greenbelt area is approximately 60% of land area and is filled with several tropical hardwood tree species. Thus, the water used in our facility is used twice, once for washing and in the toilets and thereafter recycled and used for irrigation of the tropical hardwood trees.

Renewable Energy

Unlike fossil fuels, various types of renewable energy resources - such as solar energy - are continually reloaded and will never run out.

Energy is one of Fytocare Chemicals Pvt. Ltd. most significant manufacturing costs. Reducing its usage and using renewable energy improves business

efficiency and boosts our environmental performance by preserving natural resources and decreasing greenhouse gas emissions. Solar energy, for example, can be used right away for heating buildings & water, for generating electricity, for cooling, and a variety of other manufacturing uses. Our actions towards usage of renewable energy include:

(a) A solar tent used for drying bait material used for rodenticide formulations.



(b) Currently trials are underway to use solar tents for the drying of household insecticide chinks. This is because the normal sun drying techniques is inefficient and labour intensive.



Reducing Usage of Hazardous Waste

Residual waste as part of the manufacture of household insecticide chalk has always been a big part of our clean-up process. Due to the nature of our business, production and consumption lead to certain amounts of waste. Consequently, a significant portion in work is sustainable waste management. The aim is to make use of the resources contained in waste. At the same time, it is important to reduce negative effects in the form of emissions of methane gas from landfills (we have a zero-waste policy) and carbon dioxide from combustion, as well as emissions of organic environmental pollutants. This

means that we must try to produce as little and as non-hazardous waste as possible. With this consideration, most recent actions include bringing about substantial improvement in moulding of chanks with improvements in the material used for the moulds, so that the residue is brought to a bare minimum.

Disposal of Toxic and Hazardous Waste

Fytocare Chemicals Pvt. Ltd believes that improper management of hazardous waste can pose a great risk of harm to people and the environment. This perennial problem is a constant source of worry and threat to the world at large. Waste that is not separated at source of origin must as far as possible be separated at the next link in the chain, in order to avoid the dispersion of hazardous substances contained in the waste. At Fytocare Chemicals Pvt. Ltd., we believe that an inexpensive way to deal with our waste is to reduce the amount that we produce. Our aim is to minimise and dynamically manage waste through elimination, reduction, reuse and recycling.

Our actions include:

- (a) Effluent liquids from our technical plant is first distilled to collect the volatile fractions or solvents which are then disposed of for burning. The remaining water-soluble effluent fraction is then evaporated in an

evaporator using farm waste. The residue is then collected once every 2-3 months and incinerated.

(b) Chalk residue is pulverised and distributed free for termite control in new buildings. This was the residue is fully disposed of in an efficient manner.

Reducing Carbon Emissions

Fytocare Chemicals Pt Ltd believes in being a tiny cog in the wheel in reducing carbon emissions in the environment. To resourcefully address global warming, we must radically lessen the amount of heat-trapping emissions we are pushing into the troposphere. Carpooling eases traffic congestion and reduces greenhouse emissions. Studies indicate that on an average, sharing a ride with one other person to work and back will reduce greenhouse gas emissions by 3.72 kilograms. To reduce our transportation emissions drastically, the labour has a company carpool service to take them to and from work.

LED bulbs have replaced incandescent light bulbs throughout the factory and office premises. The boiler uses agriculture waste from the farm and the smoke generated is pumped through dust collectors and only then emitted.

For economic reasons, Fytocare Chemicals Pvt. Ltd has over the years bought used machinery and resold machinery that we no longer use. This has indirectly helped us our carbon emission reduction agenda (resell and recycle).

We are thus proving that small imprints lead to larger ones in the varying scheme of things.



Responsible Consumption of Resources

We are constantly challenging redundant patterns and coming up with new solutions. Sustainable development demands that we diminish our ecological footprint by altering the way we manufacture products and consume resources required for the manufacturing process. We have a Zero waste policy that involves strictly purchasing only the correct amounts of materials as required in the manufacturing process of household insecticide chalk and

Bromadiolone products. We work with our suppliers to smart size materials for the finished goods so that not only have the suppliers had to produce less and spend less to transport it to us but, for us too, it is again less waste that needs to be gotten rid of.

Environmentally Preferable Purchasing

Fytocare Chemicals Pvt. Ltd, is conscientiously getting involved in Environmentally Preferable Purchasing (EPP) by starting to purchase products whose environmental effects have been found to be less destructive to the environment in relation to competing products that serve the same purpose. We are steadfast in developing a sustainable procurement strategy that involves all aspects of sustainability (environmental, social and economic) and includes commitments to only procure goods and services that minimise energy use, waste and social impacts. It is an important part in our journey towards responsible manufacturing of high quality products. Our actions include converting as much plastic as possible to biologically degradable material. For instance, plastic sleeve for household insecticide chinks are being changed to paper wraps. Other similar actions are under study.

Zero Landfill

As a component of Zero Waste, Zero Landfill aims to divert all solid waste from landfills. Household insecticide chalk waste is fully disposed. Here, liquid

effluent is distilled, and is finally evaporated, and the residue is incinerated. As a result of which, there is zero landfill with regards to the manufacturing process.

We have also minimized the use of paper and plastic waste at the factory site, and started composting food waste in our efforts to have zero landfill in other areas. We can proudly say that all of these elements lead towards a promised policy of zero landfills.

Adopting Green Practices



From usage of solar energy right up to implementing sustainability through

how the company operates its facilities, Fytocare Chemicals Pvt. Ltd. has always been a responsible manufacturer.



Apart from adopting several Green initiatives (as mentioned above), we have also developed a thickly wooded greenbelt area. We now have around 10 acres under green cover with tropical hardwood tree species planted including *Tectona grandis* (Teak), Indian Mahogany (*Swietenia mahagoni*), Rosewood (*Dalbergia latifolia*), Sappan wood or East Indian Red Wood (*Caesalpinia sappan*) and Malabar Neem (*Melia Dubia*).



Studies indicate that the flora and fauna of the area are well diversified species. Using other climate-appropriate plants in our garden, and by installing drip irrigation so that these plants (and trees) receive only what they need are some of the water-efficient choice we have made over the years concerning the greenbelt.

There is no adverse impact of air, soil and water pollution on the surrounding ecology as all the necessary pollution control measures have been given and clearance certificates issued for the company. This noted green belt is now attracting several migrating birds and other creatures to proliferate.



Maintenance of more than 15 Honey Bee colonies on site as biological indicators of a clean environment maintained at the chemical site.



Monitoring and the Improvement of Fytocare Chemicals' Environmental Policy & Sustainability Practices

Fytocare Chemicals Pvt. Ltd. has always combined environmental factors into business decisions. We believe that to be successful in the long-term we need to generate value for our company, our employees, the environment around us and for society as a whole. Through the application of our sustainability practices, we will strive to improve our efficiency, quality and productivity, which translates into doing more with fewer resources and less waste. Our Environmental Policy & Sustainability Practices are constantly under review

and any related issues and changes are undertaken at our monthly review meetings.

Fytocare Chemicals Pvt. Ltd. is a responsible Manufacturer, Business Group and Citizen of the World, trying to make smaller footprints move in the right direction.