



BLOGS

INTEGRATED SOLUTIONS FOR VEGETABLE CROPS

Innovations for Diversity





>You are a blessing from God in our life and the whole HPM family. Thank you for providing the stability, support, wisdom, kindness, and love that you do for HPM. ♪ ♪

With more than four decades since its inception by a leading visionary Shri Srikisan Dass Aggarwal HPM has ruled and led the agro-chemical industry in India and abroad. With the motto of 'Yielding Prosperity', the company has stood steadfast by its mission of bringing prosperity in the lives of all associated with it. Right from our adept team of meticulous farmers to our dynamic board of management directors, the company has ensured to touch and make a colossal impact in the lives of all.



MRS. SANTOSH AGGARWAL

Thanks Mrs. Santosh Aggarwal for Inspiring us over the years. You are a wonderful person, mother, wife, mentor, and friend. You are everything one could look for in a good mentor. You groomed us to be sound professionals and we learn something new from you every day. It would be impossible to count all the ways that you've helped us in every ways. Thanks for opening our eyes to new stages of opportunity and strength. You always guide us towards the right path. we admire you for your humility, your diligence, and your unwavering purpose. You have shown us how to be a more effective human being, and for that we cannot thank you enough. You are a fantastic person that is worthy of emulation. How could we ever express all our thanks for your guidance — truly we have been blessed to have you in our life.

FROM
MR. ASHOK AGGARWAL



Working Together For
Sustainable Agricultural
Practices.

Every second HPM thinks about farmers. HPM knows that what the farmers crops mean for them. At HPM, we want make agriculture better for farmers and families. Like our previous work, we are doing more than treat agricultural problems. For farmers wellbeing and farming related problems, HPM presents many Agri-Solution blogs. With the help of these blogs our farmer brothers can easily get information about the modern technologies and farming methods.



OVERVIEW ON CHRYSANTHEMUM CULTIVATION

Cotton, a principal cash crop touches India's economy at several points. An estimated 60 million people are dependent for their livelihood, either by its cultivation, marketing, processing, export, textile manufacturing or by extraction of seed oil and production of 'Vanaspati'. In recent years with increasing International demand and domestic consumption, cotton productivity, fibre quality improvement, as well as resistance breeding against insect pests and diseases, have become more mission-oriented. Among the various diseases of cotton, grey mildew disease is gaining more importance in recent years because of its increasing incidence.

Chrysanthemum is an important ornamental crop mainly grown for the production of cut flowers, loose flowers, and pot plants. In India, the commercial cultivation of Chrysanthemum is done because of its good demand. Flowers are mainly used for as cut flowers for party arrangements, religious offerings, and garland making. It is an herbaceous perennial plant that attains a height of 30-150cm. Chrysanthemum farming is commercially done in Maharashtra.

There are thousands of varieties of chrysanthemum. All differ in size, colors, and the number of flowers per stem. But the most famous in Maharashtra is Reagan White. This variety starts flowering after 103 days. The plant is 45cm tall. It has white color flowers having a diameter of 8-13cm. It gives 54 flowers/plant. For this variety, the soil should be well drained red loamy with a pH of 6 to 7. In Maharashtra, it is also known as (Shevanti). Botanically, Shevanti plant is a short-day plant. In other words,

it requires long days for vegetative growth and short days for flowering. Light and temperature are the main factors that influence the growth of the plants and flowering. For its vegetative growth, it requires a long day with bright sunlight and high temperature ranging from 20 °C to 28 °C. For bud formation and flowering it requires a short day and low temperature ranging from 10 °C to 28 °C. This crop requires the relative humidity of 75% to 90% which suitable for proper plant growth.

As all, we know that chrysanthemum is the 2nd most demanding cut flower after rose. This flowering crop also suspected by many pests and fungus. Aphids, mites, thrips, leaf miners, leaf folder, root rot, leaf spot, wilt, rust, powdery mildew, chrysanthemum stunt, and chrysanthemum mosaic disease are some common pests and diseases found in chrysanthemum cultivation. For control measures of these pests and diseases, HPM presents a wide range of agrochemicals. These agro-solutions are manufactured with highly innovative methods. These products provide complete protection from every type of pest and disease. Using these agro-solutions farmers can get a more potent and prosperous chrysanthemum crop.

GREY MILDREW

A PERILOUS DISEASE FOR COTTON CROP



Cotton, a principal cash crop touches India's economy at several points. An estimated 60 million people are dependent for their livelihood, either by its cultivation, marketing, processing, export, textile manufacturing or by extraction of seed oil and production of 'Vanampatti'. In recent years with increasing international demand and domestic consumption, cotton productivity, fibre quality improvement, as well as resistance breeding against insect pests and diseases, have become more mission-oriented. Among the various diseases of cotton, grey mildew disease is gaining more importance in recent years because of its increasing incidence.

Symptoms Of Grey Mildew:

The disease usually appears on the undersurface of the bottom leaves when the crop is nearing maturity. Irregular to angular pale translucent lesions which measure 1-10 mm (usually 3-4 mm) develop on the lower surface, usually bound by veinlets. On the upper surface, the lesions appear as light green or yellow-green specks. A frosty or whitish-grey powdery growth, consisting of conidiophores of the fungus, appears on the lower surface. When several spots coalesce, the entire leaf surface is covered by white to grey powdery growth. White or grey powdery growth may occur on the upper surface also. The infection spreads to upper leaves and the entire plant may be affected. The affected leaves dry up from margin, cup inward; turn yellowish-brown and fall off prematurely.

Favourable Conditions for grey mildew:

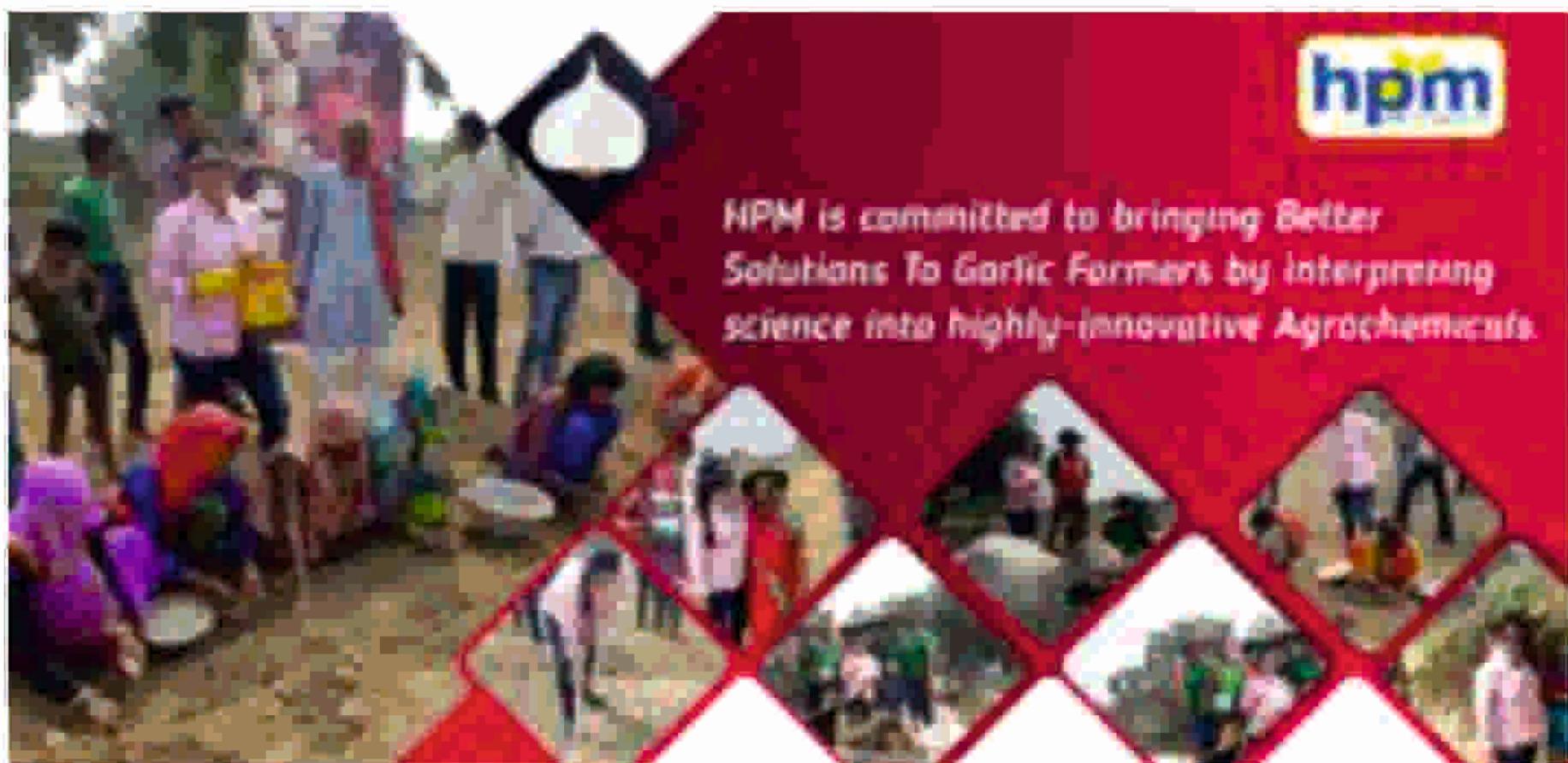
The pathogen survives during the summer in the infected crop residues. The perennial cotton plants and self-sown cotton plants also harbour the pathogen during summer months. The primary infection is through conidia from infected plant debris and secondary spread is through the wind, rain splash, irrigation water and implements.

Management For Grey Mildew In cotton :

Grey mildew has become a matter of concern for every cotton grower. Every time they think that how can they protect their crop from this perilous disease. For Management of grey Mildew Hpm chemicals and Fertilizers presents Bhoomiputra (A Systemic Fungicide). It is a systemic, preventive and curative fungicide for control of a range of fungal leaf diseases in crops. It has preventative, antifungal and early curative action with leaf disease control. It shows rapid translocation and inhibits spore germination and reduce spread. It gives best result when it is applied to actively growing cotton in fine weather at least 2 hours before the rain. Ensure thorough coverage of leaves and stems. Apply at first sign of disease or as a protectant when disease risk is high. Use mixed spray within 24 hours. Application to stressed cotton may give unreliable results. Use Bhoomiputra with a different mode of action as follow up sprays.



HPM is committed to bringing Better Solutions To Garlic Farmers by interpreting science into highly-innovative Agrochemicals.



GARLIC - THE WORLD'S HEALTHIEST FOODS

Garlic is an easy-to-grow crop that's harvested in midsummer and planted in the fall. Harvest when the tops just begin to yellow and fall over. It is one of the most important bulb-crop cultivations. It is mainly used as a spice. Garlic is considered as a rich source of carbohydrate, protein, phosphorus. Vapour oil is found in garlic. Garlic helps in indigestion. This reduces cholesterol in human blood. The total world production of garlic is more than 26.6 million tonnes, where China alone contributes 80% of the total. India is the second-largest producer of garlic and accounts for almost 5% of the total world production. Garlic in India is cultivated mostly in Uttar Pradesh, Tamil Nadu, Andhra Pradesh, and Gujarat.

As you all know that garlic is a very important crop, but it is also suspected by many pests, diseases, and weeds. Farmers faces lots of problems because of these unwanted bodies. Sometimes these pests and diseases prove menacing for garlic crops. Farmers face a 60-70 % loss due to these unbidden guests. Management is crucial for obtaining a good quality marketable bulb. HPM Presents many different types of crop solutions for Garlic Cultivation. Each product is made from the best quality agrochemicals. Our range of Highly Innovative crop solutions provides complete protection from every type of pest, diseases, and weeds. Our Top Of the Line Bio-Fertilizers and Adjuvants make the crop more potent. Each and every product designed according to the crops need. Our field officers visit every time to meet with farmers. They address their crop-related challenges and tell them better ways of farming.

HIGHLY INNOVATIVE AGROCHEMICALS FOR MOSAMBI CULTIVATION

Mosambi is the second most important commercial citrus fruit in India. It is the most abundantly grown in states like Andhra Pradesh, Maharashtra, Karnataka, Punjab, Haryana and Rajasthan and out of these Mosambi is most popular in the Marathwada region of Maharashtra. Nowadays Farmers are showing their interest in mosambi cultivation. The way mosambi cultivation is growing in the near future it will be one of the most demanding cash crops. Commercial Cultivation of mosambi fetching excellent yields under ideal cultivation Practices. Everyone is aware of the fact that mosambi is a rich source of vitamin C and potassium. Apart from being delicious, fresh and refreshing, this juice is known for its cooling and medicinal effects. Like other Crops, mosambi is also suspected by unwanted bodies. These unwanted bodies affect crop quality.

**Highly Innovative Agrochemicals
For a Better Mosambi Cultivation**

We fulfill farmers' every single need at every moment of their life, whatever they grow. HPM has a wide range of agrochemicals that provides complete protection to any crop.

hpmpromotions.com

Mosambi growers everywhere face a constant challenge to manage the damage caused by insects, weeds, and fungi. HPM's product portfolio offers an extensive range of trusted solutions and a growing number of innovative products that meet these challenges. Our team of field officers always ready to meets with the farmers and introduce them with the modern techniques of farming. They organize farmers' awareness programs in which they discuss the product and its usage, how and when farmers can use these products without any hurdle.

OVERVIEW ON WATER-CHEST NUT CULTIVATION

Water chestnut (Singhara) is one of the most important fruit crops grown in Uttar Pradesh. It is an aquatic nut crop grown mainly in the tropical and sub-tropical region, as a submerged plant community. It also thrives in the soft nutrient-rich waters in lakes, ponds and streams with a neutral to slightly alkaline pH.

hpm

Our Farmer's Smile,
Speaks The Quality
We Deliver ...

*Providing Best Products and Solutions that
make water chestnut farming more Profit*



The plant is well adapted to life at the water's edge and prospers even when stranded along muddy shores. The kernel of water chestnut contains a large amount of protein (up to 20%), starch (52%), tannins (9.4%), fat (up to 1%), sugar (3%), minerals, etc. It is also a good source of fiber and vitamin B along with Ca, K, Fe, and Zn.

In the present Scenario, farmers are showing their much interest in water chestnut farming. This fruit not only rich in vitamins but also provide a livelihood to millions of farmers. After seeing the market importance of this crop farmers now cultivating this crop in their field. Water chestnut farming also plays an important role in crop rotation. Rotten leaves and roots work like natural fertilizers which make the soil more fertile. For this Important cash crop, HPM Presents many products. These products are top in class and provide complete crop protection from all types of pests, fungi, and weeds. HPM appointed a spacial field visiting team in every state. Every team member is devoted to their work. Every single day they meet with farmers and introduce them with the modern techniques of farming. They discuss Crop related issues with farmers. They provide proper knowledge of each and every product so that farmers can't face any type of hassle in product use. Time to Time Executive director of HPM Mrs. Tapasya Goel also visits every state and meets with the farmers.

Every single day HPM provides something different for farmers and their crops. Our every single product manufactures with purity. Our work is not only delivered products, We deliver quality, which brings a smile on our farmer's face.



Dealer & Distributors Meet

Our Dealers & Distributors Are Those, Who Make Us Stand Always High

DEALERS AND DISTRIBUTORS MEET

For the past 40 years, our dealers and distributors have been a big part of HPM. They are not just our dealers they are one of the four pillars of the company. Without their unconditional support, we are nothing. We have a fantastic team of dealers and distributors who in all small and large matters live by our values: customer first, commitment, collaboration, and simplicity.

HPM appointed a special marketing team that takes care of every requirement of our dealers and distributors. Time to time they organize distributors meet so they can find their requirement about the products and products relates to any query. Apart from monthly meets every year at the starting of April, HPM turns its eyes towards annual meetings. Every time HPM does something different for these annual meetings. These annual meets fill with a lot of exhilaration. The whole meetings proves fruitful in reducing the stress of the dealers and distributors and making them ready for the coming financial year. We have made a website for the comfort of our dealers and distributors. Through the website, they get daily updates about the new products. For their knowledge, we designed product manuals in different languages according to their state so they can understand the mechanism of each and every product. We assure them that they will get the best quality material with competitive prices, quickly through the shortest route.

The management team at HPM would like to extend our gratitude and thank you for your contributions to helping our company move into the new premises. You all went well above and beyond our expectations. We could not have reached here without your support.



Working Together For Sustainable Agricultural Practices.

Analyse For Better Agriculture

PUNJAB FARM VISIT

HPM is a popular name in Agrochemical suppliers over the last four decades. It has been working extensively with the farming community to help them raise better and healthy crops. Farmers are happy and satisfied to use HPM's Product. Time to time HPM organizes many education events and e-learning meets for farmers so that they can get enough knowledge about the better growth of the crops and the proper use of the products. HPM has appointed a special field visiting team in every state. These teams meet with the farmers and tell them the better ways of farming. Now days HPM's Executive director Mrs. Tapasya Goel is also visiting these states with the field visiting team. Like her previous trips in Assam and Tamilnadu now she is on the Punjab's tour.

In Punjab she met with the lot of farmers and listened their crop related problems and assured them that now HPM will work more for addressing crop related solutions and will manufacture more unique products for the better growth of their crop. She discussed with them about the new techniques and new methods of farming.

HPM have many top 1 class agrochemical products for every crop. Our products have been helping our tea farmers for decades. Their active ingredients are designed to make crop healthy, with the use of these products farmers protect their crop from different types of pest, weeds and fungus. Every second HPM thinks about Farmers and their crop. HPM knows that what the farmers' crops mean for them. At HPM, we want make agriculture better for farmers and families. Like our previous work, In future we will do more than meet agricultural problems—we will aim to make a remarkable impact on farmer's lives.

WELCOME TEA FACTORY VISIT TINSUKIA, ASSAM

For most of us, a hot cup of tea in the morning is a refreshing start and one in the afternoon is necessary to get a relief from the day's stress and tiredness. Ever wondered how the tea leaves were processed into the form that we see in the packets now? Mrs. Tapasya Goel's (Executive director of HPM) Tea factory visit in Assam to Welcome tea factory will give you all the information for your queries regarding the processing of tea leaves.



From Leaves To Your Cup Complete Journey Of Tea

Let's discuss her experience in welcome tea factory. Let's take a look on tea leaves processing. The first step in the process is plucking fresh tea leaves from the Alaknanda Tea estate. She met with these worker and experienced their working atmosphere. The plantation workers pluck the fresh tea leaves. Once the leaves are plucked, it's now time to take them to the welcome tea factory for further processing. Factory's staff was very cooperative they told her every process with the brief. After plucking the next process is the sorting process. Since, leaves of different sizes brew differently, leaves of the same size are grouped together. This next step, known as withering reduces the moisture content in them by drying them up by passing air on them gently. In the next step the withered tea leaves are torn or bruised in order to quicken up oxidation. The process is known as disruption and is usually done by kneading, crushing, tearing or rolling the withered tea leaves. The next step in the tea leaves processing process is oxidation. This step is important as it decides the colour, strength and taste of the tea. In this step, the tea leaves are laid out on a flat surface for some time at a temperature of about 26°. All the while they are laid out, the enzymes present in the leaves react with the air causing the colour of the leaves to change from green to darker shades. For obtaining tea leaves that make tea with a lighter taste, the leaves are taken out when they are light brown in colour. For a strong taste, the leaves are laid out further till their colour is darker. The leaves are now ready for the final step in the processing which is drying.

In this step the oxidized leaves are further dried by methods like baking, sunning, panning or air drying to further reduce the moisture content in them before they are ready to be packed and shipped out.

Banana is a globally important fruit crop with 97.5 million tonnes of production. In India It supports livelihood of million of people. With total annual production of 15.91 million tonnes from 490,70 thousand ha., with national average of 32.5 T/ha. Tamilnadu ranks first in production with 50 T/ha. Banana contributes 37% to total fruit production in India. Banana occupy 20% area among the total area under crop in India. Tamilnadu ranks first in productivity in India. Tiruchi (Krishnampalli) is a major Banana growing district in Tamilnadu which occupy 50,000 hectares area under Banana Cultivation. This HPM's R&D Department works closely with Banana farming Areas across the southern India to improve efficiency and increase return from the farm gate to export markets. HPM serves many agrochemical products for banana cultivation. Searching for the necessities of the agriculturist, the best quality of agro-chemicals is made by HPM. We give best in quality Herbicide, Fungicides, Insecticides and Plant Growth Regulator to the Banana Growers. We make something which is significant and gives a superior life for farmers. And provide timeline & handbooks for product application management.

HPM has Appointed a special management team who visit to the Farmers and tell them unique methods of farming. Every Team member is always ready to help the farmers in their crop related problems. Handbooks, leaflets, and so on are utilized for their benefit, with the goal that they can get important information about the product. Time to time, HPM's Field Visiting officers and their team members organize farmers meet in these meeting, through the projectors they provides complete information about the product after watching these crop or product related videos farmers might not have any problem about the utilization of the product. Our these innovative techniques help farmers to overcome multiple challenges related to their crop.



BANANA FARM VISIT

***HPM has always tried to harmonize itself with new technologies.
HPM works on every single thing which can prove beneficial for the
farmers and for the agriculture.***



Overview on Assam's Tea gardens : Assam is world famous for its quality of tea as well as the natural beauty of the tea plantation area. Enormously found mountain region, its greenery and pleasant climate make this location perfect for tea cultivation. Assam is the world's largest tea growing region, producing more than 400 million kg of tea annually. Beautiful tea estates of Assam cover about 2,16, 300 hectares of land. Assam today comprises of more than 100 tea estates. Cropping season normally begins from March and lasts by mid December. The first plucking starts in March and continuous for around two months. The second plucking season starts from June. Nowhere in the world the tea grows in such a large quantity as in Assam.

HPM's team visit : HPM is a popular name in Agrochemical suppliers over the last four decades. It has been working extensively with the farming community to help them raise better and healthy crops. Time-to-time HPM organizes many education events and e-learning meets for farmers so that they can get enough knowledge about the better growth of the crops and the proper use of the products. HPM appointed a special field visiting team in every state. These teams meet with the farmers and tell them the better ways of farming. In recent days along with the Assam field visiting team HPM's Executive Director Mr. Tapasya Goel visited at the various tea fields. She met to the farmers and discussed with them about the new techniques and methods of farming. She promised them that HPM would manufacture more unique products for the better growth of their crop.

About the HPM's product : HPM have many top in class agrochemical products for tea cultivation. Our products have been helping our tea farmers for decades. Their active ingredients are designed to make crops healthy, with the use of these products farmers protect their crop from different types of pest, weeds and fungus. Every second HPM thinks about farmers and their crop. HPM knows that what the farmers' crops mean for them. At HPM, we want make agriculture better for farmers and families. Like our previous work, in future we will do more than treat agricultural problems—we will aim to make a remarkable impact on farmer's lives.

AASHIRWAAD SC : PROTECTOR OF SUGARCANE



For quite a long time, farmers have cultivated sugarcane to produce sugar. This remarkable crop is of big importance as a cash crop for families and smallholders. The main purpose of its cultivation today is also sugar production. However, the use of sugarcane is expanding into the products such as ethanol and biofuel, biomass used for electricity, and bioplastics. While the average yield of sugarcane worldwide is close to 60 t/ha, some countries manage to produce more than 100 t/ha. However, pests represent one of the biggest threats for farmers who are growing this powerful cash crop.

Sugarcane is affected by more than 60 insects of which about 10 insects are rather more important as far as the yield loss is concerned. Among the major insects damaging sugarcane, borers, sucking pests, soil dwelling insects are more prevalent. Estimate that insect pests cause almost 20 to 40% of farmer's yield losses. Borers are one of the most significant insect pests that attack sugarcane, thus endangering farmer's productivity.

Solution : HPM is a farmer-focused company that builds on a eminent 40-year history, aspiring to bring better agriculture and a brighter future for farmers worldwide. Every single second HPM work for farmers. For Sugarcane growers HPM has many products which protect their crop from root to fruit. HPM's Aashirwaad SC is prominent solution for early shoot borer. It belongs to phenyl pyrazole group. It is a broad-spectrum Insecticide toxic by contact and ingestion. It is very effective for insects resistant or tolerant to pyrethroid, cyclodiene, Organophosphorus and carbamate insecticide. It's unique plant Growth enhancement effect is observed.

Cotton, the commercial crop is the backbone of the textile industry as it employs vast majority of population directly or indirectly and earns the foreign exchange too. The major use of cotton today is in the textile industry; the fibers or 'fibri' of the cotton plant are harvested and woven into fabric for the production of clothing, towels, bed sheets and many other textiles. Cotton fiber may also be used in the production of yarn and twine. The cotton seeds can be used to extract oil for use in the production of shortening or cooking oil and the manufacture of soaps and lubricants. The seed may be used as a feed for livestock. Cotton is susceptible to a wide range of insect pests. Among the most destructive are the cotton bollworm, plant bugs, pink bugs, aphids, thrips and spider mites. The insect pests spectrum of cotton is quite complex and as many as 1326 species of insect pests have been listed on this crop throughout the world. However, main losses in cotton production are due to its susceptibility to about 162 species of insect pests.



SOME KNOWLEDGE ABOUT COTTON BOLLWORM

Now management of cotton bollworm is easy. Hpm's Permit 99 is provide complete protection from all types of bollworm. It is broad spectrum insecticide having contact and stomach action. It is compatible with most of the commonly used pesticides except those of alkaline materials. It is a foliar insecticide with occluded properties for use in cotton. It is synergistic in activity especially in situations where some resistance to organophosphate and synthetic pyrethroids insects have developed. It has excellent translocation effect and readily absorbed in plant cells thus not affected by rainfall.

CHILLI MITES : A SERIOUS PROBLEM FOR FARMERS



Chilli is one of the important vegetable and commercial spice crops grown throughout the the world. Numerous of Distinct factors have been attributed for the low productivity, among which, the damages caused by mites is of paramount importance. About 51 species of insects and 2 species of mites belonging to 21 families under 9 orders along with small and two species of millipedes are known to damage chilli crop both in the nursery and main field. Among these pests, mites is of serious nature. Adults are large, oval, broad and yellow with brownish hair and pairs of long legs or nymphs are very tiny with wide translucent colour and a translucent stripe on dorsal side while chilidom larva is elongated of both ends and concolor, eggs are deposited singly on the lower surface of the leaf. Incubation period both for 1-2 days. First instar nymph or larval period varies from 1.2h- 1.5 days and the second nymph or larval period is of 12h, Total nymph or larvae period last for 1-2 days. Pupal period last for a day. Adult longevity varies from 3- 5 days. The total life cycle is completed within 6.5-10 days.

Occurrence of yellow mites as well as its damage on chilli crop is observed throughout the cropping season. The nymphs and adult mites prefers to feed on top succulent leaves, whereas chilli plants will downwards in an inverted back shaped manner, petiole of reasonably matured leaves become elongate, brittle and curled downward completely. Infested leaves become bronzed with down-curling margin; both the aborted and flower distorted, shoots growthtard and fruit may be deformed and ruptured. Sudden curling and crinkling of leaves followed by bilateral pinching or similar symptoms of severely attacked plants. Petiole in a few cases becomes elongated and it is referred to "rat tail" symptom. Later they stop growing and die. HPM's Senate is the best solution for all types of mites. It is a very effective miticide. It controls red spider mite, yellow mite, purple mite, pink mite, whitefly mite. It has quick knockdown effect against nymphs and adults, mainly by contact action. It has cutting and oviposition inhibitory action on nymphs. Senate disrupts the energy generation process at mitochondrial electron transport or complex I. It provides complete protection from mites. Farmers get healthy chilli crop after the use of senate.

DIAMONDBACK MOTH A SERIOUS PEST OF CABBAGE

The diamondback moth is the most destructive insect pest of cabbage throughout the world. It has greyish-green, light-flying moth with a dove wing pattern. When at rest, the moth holds its wings together, looks like a leaf. When in this position, a pattern of three diamond-shaped spots can be seen along the top of the moth's body. The adults are active at dusk and throughout the night. During the day, moths will fly from their resting place if plants are disturbed. The adults a small moth about 10—15 mm long. The male moth is dark brown with large white diamond-shaped patches aligned on its back. The female moth is not calibrated and the diamond patterns are less distinct than those of the males. Female moth lay eggs almost 200 in small clusters on leaves and both sides of the leaves. A female moth may lay more than 150 eggs. Larvae are light green, eggs are pale yellow and 0.5 mm long. The caterpillars are grey green with a dark head in the first three stages and green with a green-brown head in the last growth stage. Caterpillars grow to approximately 1.5 cm in length. The adult moths fly from egg to 3/8 inch long or mouthy are pointed at both ends and range in color from cabbage green to yellow. When disturbed, larvae rapidly wriggle their bodies back and forth, often causing them to fall off plants.



As we know diamondback moth is the most destructive pest of cabbages because are facing great yield loss because of this pest. For the protection of cabbage crop, HPM Diamond & Pesticides Ltd. introduced new pest control and biopesticides Vardan. It can be used for all the agricultural purposes. Vardan has Vardan, Vardan 250SC and Vardan 100EC. It is recommended to control diamondback moth type, root worm, guava moth, caterpillars of brinjal, spider, leechworm, whitefly & all types of insect pest infestation of vegetables. It can also used to control snails in building wood and wood treatment & soil treatment. With continuous innovation and due HPM's commitment about transforming tomorrow better. We are committed in best selection and action. And we believe that good partnership makes a better tomorrow.

SUPER IMIDA : SUPER SOLUTION FOR COTTON APHIDS



Farmers are worried about their crop. Every time they think that how can prevent their crop from these harmful soft bodies. HPM's Super Imida is the perfect solution for cotton aphids. It is an Insecticide formulation in Suspension Concentrate. It is a systemic insecticide with translaminar activity and with contact & stomach action. Readily taken up by the plants and further distributed in all plant parts Chloronicotinyl insecticide with soil, seed and foliar use. For control of sucking insects including rice hoppers, aphids, thrips, white flies, termites, turf insects. It is commonly used on paddy, cotton, wheat, maize, potatoes, sugarcane, vegetables, fruits. It reduces surface runoff and provides uniform coverage over the foliage with enhanced penetration & stability. Super Imida is found to be very effective up to 10-14 days after application at recommended dosage.



THRIPS MOST DESTRUCTIVE PEST OF COTTON

The most steady insect related challenge for cotton cultivators is thrips. These small, scarcely noticeable, chip like creepy crawlies are important pests during the first couple of weeks after plants emerge. They can impede development yet in addition are once in a while rebuked for more harm than they cause.

Thrips feeding on plants can damage fruit, leaves, and shoots and very noticeably affect plants' cosmetic appearance. Thrips cause most damage to seedling cotton. They rasp tender leaves and terminal buds with their sharp mouthparts and feed on the juices. Leaves may turn brown on the edges, develop a silvery color, or become distorted and curl upward. Light thrips infestations tend to delay plant growth and retard maturity. Heavy infestations may kill terminal buds or even entire plants. Damaged terminal buds cause abiotic, radial branching patterns. The duration and intensity of thrips infestations vary greatly according to season and geographic location. Once cotton plants are four to six weeks old, they outgrow thrips damage and recover.

Thrips are difficult to control. For best result use HPM's Knock Down Super. It has both contact and stomach action. It is a highly active potent ingredient with a wide spectrum of control activity. Knock down Super leads to a greater photosynthetic activity, resulting in healthier plants and better yields. It has cost effective control at 500ml/ha. It gives excellent control of target pests in the most cost-effective manner.

HPM brings transformative crop protection products for farmers. Every single second we think about farmers and their crops.

GARUD : A TRUE TEA'S FRIEND

popular and cheaper beverage in the world and it can be termed as the safest beverage keeping in view the health benefits derived from drinking tea. Like other agricultural and horticultural crops, tea also needs optimum agronomic care for a high and sustained productivity. Among the critical factors limiting optimum productivity from tea plantations, weeds are counted as one in the top of the list. There are many species of weeds which affect the productivity of tea. Let's talk about some major tea weeds.

Cynodon dactylon : It is also known as "Bermuda Grass". The *Imperata cylindrica* is a perennial rhizomatous grass native to east and southeast Asia. "Bermuda Grass" derives from its abundance in Asia, India, Micronesia and Australia. It grows from 0.6-3 m (2-10 feet) tall. The invasive species on Bermuda; it does not occur naturally there. Leaves are about 2 cm wide near the base of the plant and narrow to a sharp point. The blades are a grey-green colour and are short, usually 4-15 cm long with rough edges. The erect stems can grow 1-30 cm. spikelets. The main vein is a lighter colour than the rest of the leaf and tends to be purple in color. The seedheads are produced in a cluster of 3-7 while the underside is usually hairless. Roots are up to 1.2 meters deep, but 0.4 m is typical in sandy soil. Cogon grass flowers are borne in conspicuous cylindrical silks 3-6 cm long. It has a deep root system. In drought situations with little rainfall, the root system can grow to over 2 m deep. It has two stamens and two feathery stigmas and is attached to a fuzzy plume that helps in wind-dispersed seed in drifting through the air. Cogon grass ranks number seven on the list of the world's worst weeds.



Paspalum Scrobiculatum: Kodo millet is a loosely tufted, shallow rooting grass which can reach a height of 30 – 90cm depending upon variety. It is a vigorous, tufted (up to 60 cm diameter) and slender perennial grass. It grows to a height of 0.3-1 m. The roots are rather shallow and the stems are ascending, branched and somewhat succulent. Leaf blades are 15-40 cm long, 5-12 mm wide, pale green. Leaf sheaths and leaves are glabrous. The inflorescence is a panicle, generally consisting of 3-4 racemes, 4-9 cm long. The spikelets are arranged in two or three rows. Seeds are ellipsoidal, 2 mm long, 1.5 mm wide and light brown coloured.

Weed infestation and thereby damage to tea is more severe in young tea up to two years before canopy closure and during the period of pruning every three to four years. Uncontrolled growth of these weeds can cause a loss of tea productivity to the extent of 50-70 %. If the problem is here then solution is also. HPM's Garud is the best solution for tea growers. Garud is a non-selective systemic herbicide, absorbed by the foliage, with rapid translocation throughout the plant. It is used in different stages as a pre-harvest, pre-emergence, post emergence and pre-plant incorporation. It effectively controls annual, biennial, perennial grasses, sedges, broad-leaf weeds and wood shrubs. It ensures complete kill of treated weeds thereby preventing regeneration of weeds.

TERMITES : “SILENT DESTROYER

The control of sugarcane termites is largely controlled with the application of HPM's Hi-IMIDA by Indian Farmers. Now it's become a first choice of sugarcane growers. It's unique, modern and safe bio-icide based on Imidacloprid & Chlorsulfuron-methyl (0.1%). It is a multiple usage insecticide used to control insect pests of cotton, potato, vegetables and vegetables. It is used as foliar spray for the control of sucking and other insects in different crops. Imidacloprid has a broad spectrum of activity particularly against sucking insects, various species of beetles, some species of flies and leaf miners. These traits of use are termite and locust control. Its outstanding biological efficiency, especially its excellent non-systemic properties, its broad spectrum of activity, good fumigating effect - combined with low application rates and good plant compatibility has made this product the first choice of the farmers. It can be applied to plants as a spray or stem paint or as a basal trunk spray/drench. It can also be injected into plants or coated as a soil treatment. The part of active ingredient taken up by the plant is further distributed in an ectoparasitic direction.



POWDERY MILDEW : MOST PERSISTENT FUNGAL PROBLEM OF GRAPES

HPM helps grape farmers realize optimal yield by providing outstanding disease control solutions. HPM helps farmers more efficiently produce high quality crops by bringing new products. HPM's Stuff prevent grapes from powdery mildew. Stuff is safe and has not shown any phytotoxicity, when used at recommended dosages. Effective against most diseases completed on large number of crops. Minimum activity present in developing resistance. Broad spectrum, Systemic & Contact, with protective & curative action. Being systemic, it enters in system of plant and protects the plant. When isolate and being contact it protects the plant from outside. Microscopic remains on the plant surface is due to stronger action (Fungicidal). Carbendazim absorbed through roots and green tissues, acts as protective and curative. Provides long duration control of 7-10 days. It contains plant nutrients Zn & Mn, which improves root growth in plant. It provides excellent phytosanitary effects on plant making them clean and healthy.



RICE WILL BE FIT, BECAUSE FARMERS HAVE HIFIT

C. difformis is susceptible to most of the usual methods of weed control in rice crop. These include hand-pulling, manual and mechanical tillage and flooding/reddled fields, but these all methods are costly. HPM India's leading agrochemical company makes cost effective and easy to use products for farmers. HPM has appointed a special management team that looks into farming mechanism by visiting farmers personally & comprehending different needs of farmers. The company's this act as an avenue of predicting products according to crops and their needs.

HPM's HIFIT is a best solution for C. difformis. It is a broad spectrum active pre-emergence to early post emergence like herbicide. It has an highly efficient control of a variety of weeds like annual grasses, sedges and broad leaved weeds. It controls weeds by inhibiting its growth and inhibiting the cell division. No adverse effect like burning or yellowing of crop, rather gives greening effects to the crop.





TERMINATOR'S MAGIC MAKE PADDY, LEAF FOLDER FREE BOLLWORM : THREAT FOR COTTON GROWERS

Now leaf folder becoming a threat for rice farmers. Farmers are facing great loss because of leaf folder. HPM Chemical & Fertilizers is one such agriculture company helping farmers worldwide for providing the best solutions for better farming. We are offering many insecticide that can give the greening effect to the crop and kill the target pest. HPM's terminator is the best product for leaf folder. It is a powerful insecticide for controlling biting as well as sucking of insects. Versatile Insecticide and Termiticide for agricultural and house hold pests. Terminator combines rapid initial action with a good long lasting residual effect. Triple action through contact, stomach and fumigation. Good soil application insecticide to control soil insects like termites, white grubs, and root grubs etc. Also used as a termiticide in pre and post construction of buildings.

The pink bollworm is an insect known for being a pest in cotton farming. The adult is a small, thin, gray moth with fringed wings. The larva is a dull white, caterpillar with eight pairs of legs with conspicuous pink banding along its dorsum. Pink bollworms damage squares and bolls, the damage to bolls being the most serious. Larvae burrow into bolls, through the lint, to feed on seeds. Many cotton farmers are facing great yield loss because of bollworm. Every year great loss of cotton estimated India. For more potent crop HPM working day and night. Each and every second from works for farmer. HPM's Terminator 50S is the best product for all types of cotton bollworms. It is a versatile broad spectrum insecticide. Extremely effective against all types of boll worms. It is a contact and stomach insecticide with vapour action and quick knock down effect.



Hundreds of millions of people world-wide depend on rice as a staple food. The production of rice is increased quantitatively and qualitatively then it will generate additional income sources. Rice crops suffer from infection of many bacterial, viral and fungal diseases. Thus, decreasing the annual production of rice in many countries of the world. Among these rice disease rice blast harms more than other diseases. Rice blast, caused by a fungus, causes lesions to form on leaves, stems, peduncles, panicles, seeds, and even roots. So great is the potential threat for crop failure from this disease that it has been ranked among the most important plant diseases of them all. Rice blast can affect most of the rice plant with the exception of the roots. The fungus can infect plants at any growth stage.

Every time farmers think how can they prevent their rice crop from blast. But not worry HPM's Samba is the prudent answer for blast. It is a systemic fungicide with protective and curative action. Absorbed by the leaves and roots, with translocation acropetally and basipetally. Effective internal absorption bactericide, with special good effect for Rice neck blast & Rice leaf blast. Also used on rice to accelerate rooting, promote root elongation and control non-parasitic damping. Samba effectively protects the developing rice leaves from invasion and spread of the blast disease fungus. Suppress the penetration of the fungus and inhibits the elongation of the infection hyphae of the fungus. Inhibits sporulation of lesions caused by the blast fungus of rice leaves.

SUPER HUNTER NO-1 DESTROYER OF PADDY'S WEED

Weeds are an essential factor in the administration of all land and water assets, however its impact is most noteworthy on paddy development. Weeds strengthen the bug and infection issue by filling in as exchange have Reduce the proficiency of gathering. Decrease the land esteem Problems of water tainting. Decrease the yield and nature of paddy by seeking supplements, water and daylight. Like other crop paddy is also suspected by many weeds. Weed infestation is regarded as one of the major causes of low crop yields throughout the world and can cause 50-60% reduction in grain yield under puddled conditions and 91% yield reduction in non-puddled conditions.

But farmers not to worry, Hpm is always ready to protect your crop from natural bodies like insect, fungus or weeds. Thousands of farmers in India have been benefited from HPM's Products since 4 decades, we will plan to make an amazing affect on agriculturist's lives. Our labor of love is to enhance farming, and we vow to do so in a transparent and reasonable way. For rice weeds HPM's Super Hunter is the farmers first choice. HPM has tested four times the labeled rates at various rice growth stages with no injury or yield reduction. This attribute makes super hunter unique. Another unique characteristic is hunter's ability to kill large broad leaf weeds. Super Hunter is pre-emergence selective herbicide. It is applied as blanket spray, apply within 4 days after transplantation. It controls important annual grasses, sedges and broad leaf weeds in transplanted rice.

FREEDOM MAKE WHEAT CROP HAPPY

Wheat is of prime importance in the realms of food crops in the world. The total area of the world under wheat is around 212.99 million ha with grain yield of 596.20 million tons. Wheat is suspected by many weeds. Weeds are unwanted plant species growing in the wheat crops. They in simpler terms are plants that interfere with the healthy or normal growth and development of wheat crops. They are now known to limit the production of crops causing serious losses in the output of grains. There are about 30,000 species of weeds in the world, of which 50 to 200 usually cause appreciable damage to the major food crops.

After seeing the growing problem of weeds, HPM has produced many post emergence herbicides. HPM's Freedom is the best answer for wheat enemies. Freedom is a selective systemic post emergence herbicide. Freedom absorbed through root and foliage and translocates to apex of the plants. Rapid cessation of cell division and subsequent growth. It controls a wide range of grass weeds and broad leaf weeds. It is safe for neighboring broad leaved and other crops. Freedom is absorbed by foliage work better when the weeds are growing actively. For best result Spraying early morning after dew has lifted is better than late afternoon. Do not spray if it is raining or about to rain.

Every second HPM thinks about farmers and their crop. HPM knows that what the farmers' crops mean for them. At HPM, we want make agriculture better for farmers and families. Like our previous work, in future we will do more than treat agricultural problems—we will aim to make a remarkable impact on farmer's lives.

Watermelon is one fruit that has been the focus of intensive research in recent times, even as more of its health benefits are being unravelled by the day.

24 Karat stimulates cell division and elongation that causes internodes to stretch leading to better growth of the plant.

A VALUABLE HORTICULTURAL CROP

Watermelon is most important commercial crop and HPM's 24 Karat makes the crop more important and profitable. 24 Karat is unique combination of Sea weed extracts and GA. GA acts synergistically with plant metabolism and accelerates the growth functions of the plant. It also improves the physiological efficiency of the crop by stimulating the hormonal and enzymatic activities and increases the yield and quantity of the crop produce. It mobilizes reserves in seed to germinating point leading to breaking of seed dormancy and faster germination. It stimulates cell division and elongation that causes internodes to stretch leading to better growth of the plant.

In earlier days the cultivation of flowering plants was limited to landscape gardening and these were not grown as cash crop. Due to high margin of profit in flower cultivation now a days floriculture business is flourishing. Today, floriculture is sermonized as most remunerative profession with much higher potential returns per unit area than that of some other horticultural crops. There is an increasing demand of flowers all over the world. Flowers are placed their importance in our social system. Flowers are extensively used for decoration, making essential oils, perfumes and medicines, etc.



SOME IMPORTANT FACTS ABOUT MARIGOLD

The cultivation of flowers has now become popular in many states in India due to fast changing of social scenario. Marigold is cultivated all over in India. Marigold flowers are used to make garlands and also used to decorate the religious places. Yellow dye has also been extracted from the flower. Pigments of the Marigold are used for the colorings. Marigold such is most important commercial crop and HPM's Aasra make the crop more potent. It is a unique new generation worldwide spray booster and activator which make the agrochemicals such as Insecticide, Fungicide, Herbicide, Plant Growth Regulator, Fertilizer and Micronutrient perform better. Aasra solution spreads quickly, and provides enhanced spreading of agrochemicals on the leaf surfaces and leads to better spray coverage, which improves the efficacy of the agrochemical used. It is when added to spray water tank lowers the tension of spray water on leaf surface, which promotes the better spreading and penetration of Agro product. It is compatible with most agrochemical formulations and can be used on a wide variety of crops. It has improved deposition of the agro product which enhances its coverage and retention on foliage. It ensures the solution doesn't wash off even after immediate rain. Aasra is designed in such a way that it ensures proper wetting of leaf surface, which makes the pesticide or agro product uptake and absorption rapidly by the plant. It ensures the proper penetration of the agrochemical product into the plant by reducing the droplet sizes of the spray.

BROWN ROT : A MAJOR DISEASES OF SWEET CHERRY

Cherries are one of the most important deciduous fruit trees as well as ornamental crop worldwide. The commercially important edible cherries are mainly obtained from *Prunus avium* (sweet cherry) and *Prunus cerasus* (sour or tart cherry). Today, cherries are cultivated all over the world, with India ranking as the 26th in world production. According to the book "Mughal Gardens," sweet cherries very likely came to India by way of the Middle East during Emperor Akbar's reign. Cherries require high altitudes and colder climates to grow. Cherries provide countless health benefits, in part because of their high antioxidants and flavonoids.



HPM is a highly focused research-driven agrochemical company. Every day HPM touches thousand of lives. At HPM, we want make agriculture better for farmers and families. Using the latest mechanical movements, HPM provides the best fungicides for the cherry cultivation. For the treatment of brown rot HPM's PANTHER is the perfect solution. It is broad spectrum fungicide belonging to the Phthalimide group. It has a protective and curative action. It gives tremendous protection against a wide variety of fungal infections in crops equally at seedling stage and in mature plants. Panther serves both as a seed-dresser and as a foliar spray to control seed-borne diseases, soil inhabiting fungi and foliar/fruit diseases. It works by inhibiting respiration of numerous species of fungi and bacteria. Panther also blocks the ability of fungus to produce energy. Panther is effective fungicide of micronized particle size used for the control of brown rot, downy mildew, early blight and late blight in apple, cherry, grapes, potato and tomato etc.



Aphid species attack apricots, including the hop aphid, mealy plum aphid, and thistle aphid. Both adult and immature aphids feed on plants by injecting their needle-like mouth parts into green tissues and sucking out plant juices. Aphid feeding can stunt and deform early season shoot growth. Later in spring, feeding can lead to leaf curling, or, at high aphid abundances, cause shoot dieback and damage fruit. HPM's Rogohit is the prudent answer for apricot growers. It is a systemic organo phosphorus, which controls apricot aphids.



Despite its impressive nutrient content, cabbage is often overlooked. It comes in a variety of shapes and colors, including red, purple, white and green, and its leaves can be either crinkled or smooth. This vegetable has been grown around the world for thousands of years and can be found in a variety of dishes the crop is highly susceptible to various insects. HPM's X-PERT provides complete protection from various insects. It protects cabbage crop from feeding damage within few hours of application. It controls range of larval instars by contact activity.

hpmpromotions

Using the latest mechanical movements, HPM provides the best agro-chemicals for the turmeric cultivation.

Burton France India

Uttam Agro Chemicals Pvt. Ltd. A Member of HPM Group

HPM GOLD

Uttam Agro Chemicals Pvt. Ltd. A Member of HPM Group

HPM GOLD

Turmeric, the ancient and sacred spice of India known as is an important commercial spice crop grown in India. The increasing demand for natural products as food additives makes turmeric as ideal produce as a food colourant. It is also known as the 'Golden Spice of life' and is one of the most essential spices used as an important ingredient in culinary all over the world. India is the largest producer, consumer and exporter of Turmeric. It accounts for 80% of world output. It is very important commercial crop in India and HPM GOLD supplies maximum micronutrient to the crop. It contains granular spores and other propagules of VAM Mycorrhizal Fungi in a granular carrier and has broad spectrum fertilizer activity.

hpmpromotions

Combiplus Pesticide from Deltex and Capsule 8000

Burton France India

Cardamom Plantation

RISE

The cardamom thrips ranks first among the insect pests of cardamom and is considered to be the most destructive pest in all the cardamom growing tracts. It is estimated that 78 per cent by weight and 92 per cent by number of capsules are damaged due to thrips. HPM's RISE is the best solution for the control of Thrips.

hpmpromotions

Guava Cultivation Statistics

1.90	1.68	100
Hectares Area for Cultivation	million tonnes production	different varieties
1,000	1,000	1,000
TOTAL AREA	TOTAL PRODUCTION	TOTAL VARIETIES

M-45

Guava is one of the most common fruits in India. It is quite hardy and prolific bearer. Guava is a commercially significant, highly remunerative crop even without much care. It is a rich source of vitamin C and pectin. It is also a good source of calcium and phosphorus. Guava is successfully grown all over India. The total area and production of guava in the country are 1.90 lakh hectare and 1.68 million tonnes. It is commonly known for its food and nutritional values throughout the world. The medicinal properties of guava fruit, leaf and other parts of the plant are also well known in traditional system of medicine. HPM's Hindustan M-45 provides nutrients – Manganese and Zinc, which protect crop from different fungus.

**Unique combination
of Sea weed extracts
and GA**

India is Asia's third-largest producer and exporter of coffee. India is the world's sixth-largest exporter of coffee. India produces 3.9% of the world's coffee. India grows at least 13 unique varieties of coffee. Indian coffee is the most extraordinary of beverages, offering intriguing subtlety and stimulating intensity. India is the only country that grows all of its coffee under shade. Typically mild and not too acidic, these coffees possess an exotic full-bodied taste and a fine aroma. Indian coffee has a unique historic flavour too! It all began with a long, arduous journey around four hundred years ago... when the legendary saint Baba Budan brought seven magical beans from distant Yemen and planted them in the Channarayapatna hills of Karnataka. The sensations of aroma, flavour, body and acidity that you enjoy with each coffee experience is rooted in these mystical beginnings. Coffee is actually very healthy. It is loaded with antioxidants and beneficial nutrients that can improve your health. Coffees can help people feel less tired and increase energy levels. This is because it contains a stimulant called caffeine, which is actually the most commonly consumed psychoactive substance in the world. After you drink coffee, the caffeine is absorbed into the bloodstream. From there, it travels into the brain. In the brain, caffeine blocks an inhibitory neurotransmitter called Adenosine. When that happens, the amount of other neurotransmitters like norepinephrine and dopamine actually increases, leading to enhanced firing of neurons. Many controlled trials in humans show that coffee improves various aspects of brain function. This includes memory, mood, vigilance, energy levels, reaction times and general cognitive function.

The coffee chain employs over eight million people, consolidating coffee production as an important source of income. Growing coffee provides employment and is an important monetary source in rural areas. It is often said, the Indian coffee grower pours his life into the crop. It is no wonder then that India has consistently produced and exported a remarkable variety of high-quality coffees for over one hundred and fifty years. For high quality and healthy crop farmers need best quality Plant Growth Regulators. 24 karat is the best friend of coffee cultivars. It is an unique combination of Sea weed extracts and Gibberellic Acid. Gibberellic Acid acts synergistically with plant metabolism and accelerates the growth functions of the coffee plant and also improves the physiological efficiency of the crop by stimulating the hormonal and enzymatic activities and increases the yield and quantity of the crop produce. 24 Karat mobilized reserves in seed to germinating point leading to breaking of seed dormancy and faster germination. It stimulates cell division and elongation that causes internodes to stretch leading to better growth of the plant. Improves taste and quality of fruits, and enhances their marketability specific to crop. Improves photosynthesis and plant metabolism, improves leaf area and root system. Regulates GA:ABA ratio leading to less flower and fruit drop. It increases stem length in flowers grown for export.

Ginger, known as "Adrakh" is most important major spice crop of India. It is valuable cash crop and plays an important role in Indian Ayurvedic medicine as folk remedies. It is valued in medicine as a carminative and stimulant of the gastro-intestinal tract. Dry ginger is used for the manufacture of oil, oleoresin, essence, soft drink, non-alcoholic beverages and vitaminised effervescent soft drinks. India is leading producer of Ginger. Karnataka, Orissa, Assam, Meghalaya, Arunachal Pradesh and Gujarat are major ginger producing states. India is the largest producer and exporter to more than 50 countries accounting for more than 70% of world production.

Ginger is an important cash crop in India, about 3 lakhs tonnes of ginger are being produced annually from 47,641 ha land and the Northeast region is emerging as India's organic ginger hub. A large number of farmers still practice the traditional methods of cultivation. High yielding is a dream of every ginger farmer who wishes to see the best result, and HPM is always working for fulfill the every farmers dream. Heera Zinc plus is the best solution for higher yielding and better growth of the plant. Zinc is most important nutrient in all the micro nutrient. It used mainly in to improve nutrient growth in Soil. It improves the health and makes greenery in ginger crop. It acts as resistant against disease and gives proper growth.

From the beginning HPM is Saving the yields and protecting the crops by its best quality agrochemicals . HPM is enthusiastic about changing farmer's lives. We are courageous in both decision and action. And we believe that better quality agrochemical means a better agriculture. We focus on finding new techniques that help farmers in their farming. At HPM , our first and crucial step in crop protection is knowledge. we ensure that very farmer should be aware of susceptibility of the crop to certain diseases. HPM is effectively associated with education drives with regards to spreading awareness about enhanced and better farming practices.





Guava is an important fruit of tropical and subtropical area of the world. It is commonly called poor man's fruit. It is one of the important commercial fruits in India. It is the fourth most important fruit after mango, banana and citrus. In India guava occupies an area of 2.03 lacs hectares with annual production of 22.7 lacs MT. Allahabad area in U.P. is reputed for the production of high quality of guava in India and the world. Just like mango, guava is found growing from plains to higher hills owing to its wider adaptability. It takes mild rainy season during fruit maturity and ripening just like mango.

These cause various diseases viz. pre and post harvest rots of fruits, canker, wilt, die-back, defoliation, twig drying, leaf spot, leaf blight, anthracnose, red rust, sooty mould, rust, seedling blight and damping off etc., yet there are many diseases which are cause of great loss and the fruit rot is one of them.

Two sprays of Hindustan M-45 after first visual symptom at 5 day intervals and then monthly sprays are effective in controlling the fruit rot. It is a broad-spectrum fungicide with protective action which protect the guava crop from many disease. It is fungi toxic when exposed to air. It is broad spectrum disease control – Control diseases caused by all four major classes. It is kind of fungicides – Foliage sprays, seed treatment, nursery drenching. Fit for resistance management – Multisite mode of action, the risk of resistance development is very low. It is cost effective – Cost benefits for disease control over non-EBDCs. Provide nutrients – Manganese and Zinc as micro nutrients. Environmentally Safe – Low persistence in environment as it rapidly degrades in soil and water, no leaching potential.



HPM use science-based innovation to address some of farmers's most challenging farming issues. Company discover and develop breakthrough products and find new ways to deliver them to as many farmers as possible. At HPM we seek to develop agrochemical products that can produce positive real-world outcomes for farmers. With advances in research , we create best agrochemical that enhance the lives of farmers and their crops. Our HINDUSTAN M-45 is the prudent answers for banana farmers. It is a broad-spectrum fungicide with protective action which protect the banana crop from many . It is fungi toxic when exposed to air. It is broad spectrum disease control – Control diseases caused by all four major classes . It is kind of fungicides – Foliage sprays, seed treatment, nursery drenching. Fit for resistance management – Multisite mode of action, the risk of resistance development is very low. It is cost effective – Cost benefits for disease control over non-EBDCs. Provide nutrients – Manganese and Zinc as micro nutrients. Environmentally Safe – Low persistence in environment as it rapidly degrades in soil and water, no leaching potential.



Rubber Is an Important plant not only for world economic strategies but also for the use of living of humankind. The more social development, the more requirements of products made of Rubber for people utilization is increasing everyday. Natural latex is one of important raw material available for making various kinds of products in heavy industries such as motor and vehicle industry, kitchenware and house ware. India is one among the top ten rubber producing countries.



Grape is an important commercial fruit crop of south India. Grape growing has been regarded as most remunerative enterprise. India is among the first ten countries in the world in the production of grape. This crop occupies fifth position amongst fruit crops in India with a production of 1.21 million tonnes (around 2% of world's production of 57.40 million tonnes) from an area of 0.05 million ha, in 2001-02. The area under grape is 1.2 % of the total area of fruit crops in the country. Production is 2.8% of total fruits produced in the country. About 80% of the production comes from Maharashtra followed by Karnataka and Tamil Nadu. As is true of many fruits, a long list of insects causes problems for grapevines. Insects that can affect grapes include the grape phylloxera, grape flea beetle, grape berry moth. Insects feed on buds, leaves, and fruit. The most damaging are those that feed on fruit because resulting rot can spread throughout the entire cluster.

Grape root borer is potentially the most destructive insect attacking grapes in India. Larvae of this insect tunnel into the larger roots and crown of vines below the soil surface. Borer damage results in reduced vine growth, smaller leaves, reduced berry size, and fewer bunches of grapes. Because damage is restricted to below ground, problems often go unnoticed until vine decline is observed. Damage caused by larval feeding can range from just a few feeding sites to complete root system destruction. Adults are brown moths with thin yellow bands on the abdomen and resemble some paper wasps. The front wings are brown while hind wings are clear. Male moths fly about in a manner similar to wasps. Larvae are cylindrical, cream-colored, with three pairs of true legs near the head and five pairs of fleshy abdominal prolegs each bearing two bands of tiny hooks. The larvae are 1-1/2 inch long when mature and have a retractable brown head.

Adult emerges from the soil in mid summer (July) and hold on the soil surface, grape leaves, and vines with slight drops of adult resuscitation. Females lay an average of 250 eggs. Eggs hatch in about two weeks and larvae immediately tunnel into the soil in search of grape roots. About 95% of the larvae die before reaching roots, but less than 1% die after finding grape roots. Larvae will feed on the roots for 2 years. During the summer of the second year, larvae will pupate near the soil surface.

Control :

HPM's prime mission is to protect agriculture. We believe that each farmer use our products with trust and confidence. Our Apollo is an insecticide and acaricide with contact and stomach action. It is the best solution for grape producers. It provides the complete protection from grape root borer. It inhibits moulting of nymphs and larvae, leading to death. The product also suppresses oviposition by adults and treated insects lay sterile eggs. It is not phytotoxic when used as per recommendation.



Mango is a very important and popular fruit in the world. It is the choicest fruit of the subcontinent and is known as king of all fruits. Its popularity is mainly due to its excellent flavor, delicious taste, and high nutritive value being rich in vitamins A and C. Its origin is believed to be south Asia where it has been cultivated for the last four thousand years. Now it is a commercially cultivated important fruit India. But production of mango is enormously handicapped by the ravages of insect pests from seedling to their maturity. More than 300 insect pests have been recorded to attack mango crop in different regions of world.

At HPM, helping farmers in their fight against pest drives. Our purpose is to innovate to bring best agrochemicals to farmers that significantly improve their crop. Devsand is the result of our innovative efforts. Devsand is broad spectrum systemic insecticide contains the active ingredient (Thiamethoxam) which protects mango crop from hopper attack. It is self-applied insecticide and having quick action against sucking and chewing pests. It has labeled for use on Ground Nut, Sugarcane, Rice and Cotton. Devsand may direct the application at the base of the plant for optimum root uptake when making post-emergence applications. It improves the plant from primary treatment, it tough up by the plant buster which results higher yield and improved crop quality resulting longer-lasting systemic control. For use, measured out the required quantity of the Devsand directly it well with a small quantity of water and add remaining quantity of water as specified with thorough agitation and apply as soil drenching in Ground Nut, Sugarcane and Cotton. It has negligible effect on beneficial insects.

Mango is an important fruit crop in India and other sub-tropical countries of the world. Over 140 fungi (70 diseases) are associated with this fruit. Mango is subject to a number of diseases at all stages of its development. Some of these diseases cause heavy loss and are limiting factor in mango cultivation in some regions. Mango is affected right from the plants in the nursery to the fruits in storage or transit. Hardly any plant organ is immune and almost every part viz. stem, branch, twig, root, leaf, petiole, flower, and fruit are affected by various pathogens, yet there are few diseases which are cause of great-great loss and the corker is one of them.



Three sprays of STUFF after first visual symptom at 10-day intervals and then monthly sprays are effective in controlling the disease. STUFF is a broad spectrum, Systemic & Contact Fungicide with protective & curative action. Being systemic, it enters in system of plant and protects the plant from inside and being contact it protect the plant from outside. It is effective against many diseases complexes on large number of crops. It has multi-site activity prevent in developing resistance. It contains mancozeb & carbendazim, mancozeb remains on the plant surface & acts by contact action (protective) and carbendazim absorbed through roots and green tissues, acts as protective and curative. It provides long duration control of 7-10 days. It contains plant nutrients Zn & Mn, which improves root growth in plant. It provides excellent phytotoxic effect on plants making them appear green and healthy. STUFF is safe and has not shown any phytotoxicity when used at recommended dosage.

4 MAJOR DISEASES OF MANGO

- Anthracnose**
- Bacterial Blight**
- Downy Mildew**
- Root Rot**

The HPM

HPM Crop Protection Pvt. Ltd. is a well-known agrochemical company in India. We offer a wide range of products for various crops like mango, tobacco, cotton, etc. Our mission is to provide farmers with the best quality agrochemicals to help them increase their yields and profits.

HPM Crop Protection Pvt. Ltd. is a well-known agrochemical company in India. We offer a wide range of products for various crops like mango, tobacco, cotton, etc. Our mission is to provide farmers with the best quality agrochemicals to help them increase their yields and profits.

One Stop Crop Protection Partner

Mango is subject to a number of diseases at all stages of its development. Hpm Chemical & Fertilizers Ltd. is one of the best companies to bring targeted agrochemicals for the mango crops. Today, hpm creates innovative agrochemicals that help millions of mango farmers globally. Hpm's product is the best way to prevent mango crop from these hazardous diseases.

Protecting the crops from diseases is a dream of every tobacco farmer who wishes to see the best result, and HPM is always working for fulfill the every farmers dream. Hitalaxyl is a best way to prevent tobacco crop from the hazardous disease late blight. It is a broad spectrum fungicide which controls diseases by its preventive as well as curative action. It is a broad spectrum activity against diseases like Downy Mildew, Early Blight, Late Blight, Tikka, White rust, Alternaria blight, Damping off, Brown and black rust, Blast, etc. Hitalaxyl is a wettable powder containing a mixture of the systemic fungicide Metalaxyl and the contact fungicides Mancozeb. Quick uptake and trans-location towards emergent tips helps to protect the plant from diseases for longer period of approximately 14 days. It is recommended to spray Hitalaxyl at the commencement of the disease symptoms/ at apparent moment of disease incidence. At recommended rates, Hitalaxyl is compatible with most other commonly used insecticides and fungicides except lime sulphur.

hpmp

Tobacco Plant

250 million people in the country use tobacco in different forms.

Late blight is a hazardous disease of tobacco. Late blight first appears on the lower, older leaves as water-soaked, gray-green spots.

From the beginning HPM is Saving the yields and protecting the crops from pest and diseases by its best quality agrochemicals . HPM is enthusiastic about changing farmer's lives. We are courageous in both decision and action. And we believe that better quality agrochemical means a better agriculture. We focus on finding new techniques that help farmers in their farming. At HPM , our first and crucial step in crop protection is knowledge. we ensure that very farmer should be aware of susceptibility of the crop to certain diseases. HPM is effectively associated with education drives with regards to spreading awareness about enhanced and better farming practices.

HPM chemicals & fertilizers ltd. is a popular name in agrochemical suppliers over last four decades. It has been working exclusively with the farming community to help them raise better and healthier crops. Today hpm's reach and impact has crossed geographical boundaries. Through extensive research in agricultural fields, the company has developed many successful products and services. This has largely helped farmers grow healthy crops and increase their productivity. Seagull is one of the successful product of hpm chemicals & fertilizers ltd. It is a very effective biofertilizer. It controls red spider, yellow mite, purple mite, pink mite, whitefly mite. If has quick knockdown effect against nymph & adults, mainly by contact action. It has moulding and absorption property which can nymphs Seagull disrupts the energy generation process of microchloroplast electron transport.



The coconut palm is referred to as 'Kadambari' — the tree of heaven in each and every part of the palm is useful to mankind in one way or other. It provides food, drink, fuel and shelter. Millions of families in India depend on coconut for their livelihood either directly or indirectly. India ranks third in area and production of coconut in the world.



HORTICULTURE



Horticultural crops play an important role in commerce, particularly in export trade and processing industry.

Moreover, Indians are basically vegetarians, and to meet their nutritional requirement in terms of vitamins and minerals horticultural crops have to be grown in sufficient quantities to provide a bare minimum of 85 g of fruits and 200 g of vegetables per head per day with a population of above 120 crores.

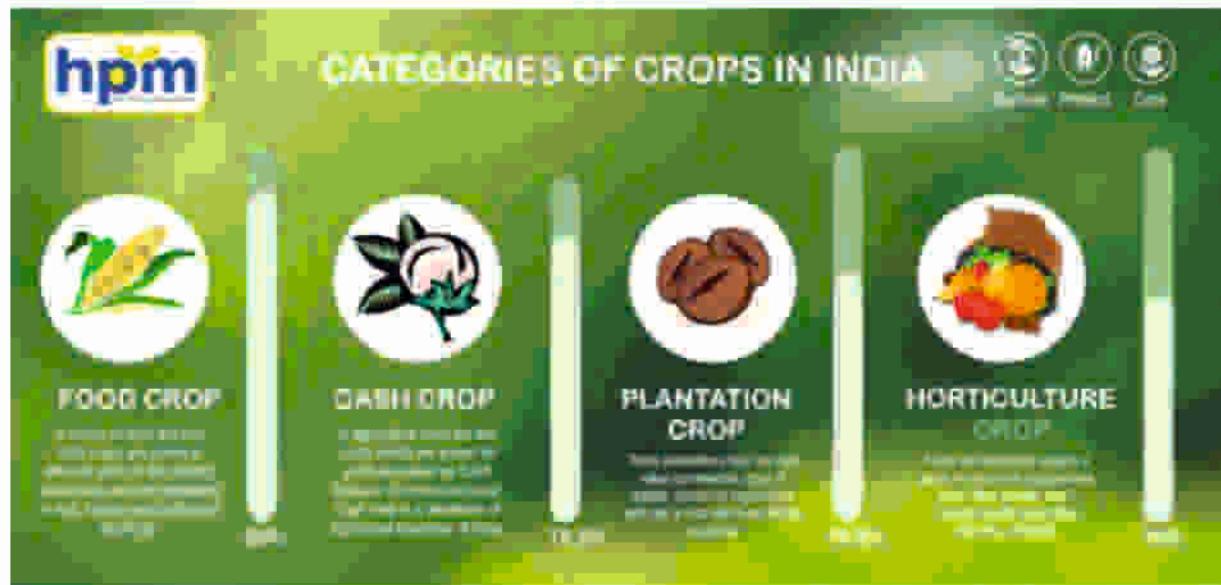
 Nurture Protect Care



HPM Chemicals & Fertilizers plays a vital role in the horticulture business. HPM is the India's number 1 in agrochemical industry with more than 200 products on the market. We are manufacturing best agrochemical products for decades, and we remain committed to finding new ways to tackle the for the horticulture business. Our wide range of products includes Insecticides, Herbicide, Fungicide PGR, Adjuvant & Bio fertilizers. These products are highly effective due to their accurate composition, efficient performance and high durability. All our products are manufactured from the quality tested material. All our agrochemicals are formulated using the quality ingredients and does not cause any harmful effects on the horticulture business.

India is the home for many horticultural crops of commercial importance. Horticulture has improved economic status of farmers, increased availability of fruits and vegetables throughout the year increased per capita consumption from 40 to 63 grams of fruits and 95 to 175 grams of vegetables. It has also played a significant role in women empowerment, providing employment opportunities to them in mushroom cultivation, agriculture, vegetable seed production etc. The annual growth rate during the period was more than 6.5 percent. Thus the horticulture sector contributes more than 24.5 percent from more 8.5 percent of area to the gross domestic product of agriculture. India is blessed with various types of soils and varied agro-climatic conditions as a result of which the country has the advantages of growing a variety of horticultural crops in horticultural and other crops in general. Horticulture includes a wide range of crops namely, fruits, vegetables, tuber crops, flowers, medicinal and aromatic plants, mushrooms, plantation crops, spices etc. These are grown in varied agroclimatic conditions of temperate, subtropical and arid zones.

Moreover, Indians are basically vegetarians, and to meet their nutritional requirement in terms of vitamins and minerals horticultural crops have to be grown in sufficient quantities to provide a bare minimum of 85 g of fruits and 200 g of vegetables per head per day with a population of above 120 crores. Continued increase in demand for horticultural produce provides tremendous scope for the growth of this industry. Good land is under pressure for double food, industry, housing, roads and infrastructure due to population explosion and only wasteland has to be efficiently utilized where cultivation of ornamentals is a gamble due to restricted root zone and their susceptibility of abiotic stress. These lands can be best utilized to cultivate hardy horticultural crops like fruits and medicinal plants. At present our share in international trade of horticultural commodities is less than one per cent of total trade. Moreover, three commodities (spices, coffee, tea) fetch 10-20 times more foreign exchange per unit weight than ornamentals and therefore, taking advantage of globalisation of trade, increase of big market and the size of production, our country should greatly involve in international trade which would provide scope for growth.



Agriculture plays a vital role in the Indian economy. Agriculture is the backbone of our country. It includes farming of crops, animal husbandry, pisciculture, agro-forestry etc. Over 38% of rural households primarily depend on agriculture. In India around 70% of the population earns its livelihood from agriculture. It fulfills the basic need of human beings and animals. It is an important source of raw material for many agro based industries. India's geographical condition is unique for agriculture because it provides many favorable conditions. There are plain areas, fertile soil, long growing seasons and wide variation in climatic condition etc. Apart from unique geographical conditions, India has been consistently making innovative efforts by using science and technology to increase production. The particular weather and soil conditions allow for crops in India uniquely suited to it. India is the top producer of many crops in the world. There can be many ways to divide the types of crops (based on area, season, economic value etc.). Based on seasons, the crops in India are divided into three types; Rabi, Kharif and Zaid.

CATEGORIES OF CROPS IN INDIA : THE MAJOR CROPS CAN ALL BE DIVIDED INTO FOUR MAIN CATEGORIES DEPENDING ON THEIR USAGE.

Kharif Crops : Kharif crops sown in June-July when rains first begin. It requires lot of water and hot weather to grow. It harvested in September-October. Example: Rice, Jowar, Bajra, Maize, Cotton, Groundnut, Jute, Sugarcane, Turmeric, Pulses (like Urad Dal) etc.

Rabi Crops : Rabi Crops sown in October-November. It requires warm climate for germination of seeds and maturation and cold climate for the growth. It harvested in April-May. Example: Wheat, Oat, Gram, Pea, Barley, Potato, Tomato, Onion, Oil seeds (like Rapeseed, Sunflower, Sesame, Mustard) etc.

Zaid Crops : Zaid Crops grown between March-June between Rabi and Kharif crop seasons. These are early maturing crops. Example: Cucumber, Bitter Gourd, Pumpkin, Watermelon, Muskmelon, Moong Dal etc.

Categories of Crops in India : The major crops can all be divided into four main categories depending on their usage.

Food Crop : A variety of food and non food crops are grown in different parts of the country depending upon the variations in soil, climate and cultivation practices. Major crops grown in India are rice, wheat, millets, pulses etc. Total Food grain production is estimated at record 275.68 million tonnes in India.

Cash Crop : In agriculture there are few crops which are grown for profit are called as 'Cash Crops or Commercial crops'. Cash crop is a backbone of agriculture economy of India. Sugarcane: Sugarcane is an important cash crop of India. Molasses, sugar and khandasari etc. are produced from the juice of sugarcane. Total production of cash crops in India is 82.6 million hectares in the area of 215.6 million acres.

Plantation Crop : The crops include tea, coffee, rubber, cocoa, coconut, arecanut, oil palm, palmyrah, cashew, cinchona etc. These plantation crops are high value commercial crops of greater economic importance and play a vital role in our Indian economy. Major plantation crops are Coffees, Coconut, Tea, and Rubber etc.

Horticulture crops : Fruits and vegetable acquire a place of important as protective food. They provide much needed health supporting vitamins, minerals. Horticulture is now regarded as the largest sub sector of agriculture producing high quality traditional and exotic fruits and vegetables. Total production of horticulture in India is 305.4 million tonnes.



HORTICULTURE



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Nurture Protect Care



Crop rotation is one of the oldest and most effective cultural control strategy. It means the planned order of specific crops planted on the same field. It also means that the succeeding crop belongs to different family than the previous crop. Crop rotation is the practice of growing a series of different types of crops in the same area in sequential seasons. Crop rotation gives various nutrients to the soil. A traditional element of crop rotation is the replenishment of nitrogen through the use of green manure in sequence with cereals and other crops. Crop rotation also mitigates the build-up of pathogens and pests that often occurs when one species is continuously cropped, and can also improve soil structure and fertility by alternating deep-rooted and shallow-rooted plants.

When a single crop is grown in one field for many years in a row, the crop will cause the depletion of particular nutrients from the soil. This depletion of nutrients leads to poor plant health and lower crop yield. The land itself can become "tired" and less fertile. This is because the same type of crop planted repeatedly in the same area keeps draining the land of the same nutrients needed for that plant's growth. Second, certain pests can reach levels that are hard to control when they learn to make a home near a field that always has the same type of crop. Finally, land can be more susceptible to the forces of erosion if the same type of crop is planted repeatedly season after season.

Crop rotation helps mitigate each of these effects. Different types of plants require different types of nutrients from the soil. Growing crops routinely allows the land to remain fertilized. With crop rotation, particular nutrients are replenished depending on the crops that are planted. For example, a simple rotation between a heavy nitrogen using plant (e.g., corn) and a nitrogen depositing plant (e.g., soybeans) can help maintain a healthy balance of nutrients in the soil. Crop rotation also prevents plant diseases and pests by exchanging crops that may be susceptible to a particular disease or pest with a crop that is not susceptible. For example, although corn is affected by corn rootworm, soybeans are not. The soybeans help suppress the pest so that the corn planted the following year will not be as adversely affected by it.

HPM Chemical & Fertilizers Ltd. , is a Farmers-focused, innovation-driven global Agrochemical company , aspiring to bring better agrochemical products and a brighter future for farmers worldwide. HPM works every day and night to make agriculture better by manufacturing and making most valuable agrochemicals that help farmers to make their farming little better. We manufacture innovative products and solutions that improve farming quality. HPM not only gives the better agrochemical products , also effectively associated with education drives with regards to spreading awareness about crop rotation , enhanced and better farming practices. HPM offers outright counsel and workshops to farmers on how and when to utilize agrochemicals. Our special field management team are striving to bring best farming solution breakthroughs to farmers worldwide.



GROUNDNUT



Most of the health benefits of peanut oil come from its diverse types of fatty acids, such as oleic acid, stearic acid, palmitic acid, and linoleic acid, among others.

Devsena improves the plant from primary treatment it took up by the plant faster which results higher yield and improved crop quality resulting longer-lasting systemic control.

Groundnut oil

comes to devsena



In India, groundnut is one of the most important oilseed crops and occupies an area of 5.86 m ha with production and productivity of 8.26 m tons and 1411 kg/ha, respectively. It is also known as peanut, monkey nut or moongfall. It plays an important role in the dietary requirement of resource-poor woman and children. Groundnut kernels are also used for the preparation of food products like chikkis, groundnut milk, butter, curd including different bakery products. Groundnut cake obtained after extraction of oil is used as valuable organic manure and feeding material for livestock. It consists of 7.3% N, 1.5% P2O5 and 1.3% K2O. The peanut haulms contain crude protein 8- 5%, lipids 1-3% and minerals 9-10%. These are used as cattle feed either in fresh or in dried stage or preparing hay or silage. The peanut shells or pod walls which constitute nearly about 25% of total pod weight are used as bedding material for poultry or as mulching material during the summer season to reduce the evaporative losses. Shell material is also used as filler material for making mixed fertilizers and as insulation material for buildings or as fuel in boilers. Groundnuts are a legume that can be processed into an oil. Groundnut oil is a natural source of phytochemicals, antioxidants that protect your body from damage from toxins and free radicals. Like other plant-based oils, groundnut oil contains no cholesterol.

Groundnut is the most important crop , it is necessary to protect the crop with best agrochemical and the best is "HPM's Devseña". It contains (Thiamethoxam 75% SG). Thiamethoxam is a second generation neonicotinoid insecticide, possessing some unique chemical properties. HPM's "DEVSENA" is the best example of thiamethoxam, Devseña is a broad spectrum systemic insecticide contains the active ingredient Thiamethoxam. It is soil-applied insecticide and having quick action against sucking and chewing pests. It has labeled for use on Ground Nut, Sugarcane, Rice and Cotton. It may direct the application at the base of the plant for optimum root uptake when making post-emergence applications. It improves the plant from primary treatment, it took up by the plant faster which results higher yield and improved crop quality resulting longer-lasting systemic control. For use, measured out the required quantity of the Devseña and mix it well with a small quantity of water and add remaining quantity of water as specified with thorough agitation and apply as soil drenching in Ground Nut, Sugarcane and Cotton.

DEVSENA (Thiamethoxam 75% SG) is found to be more efficient in reducing different types of sucking pest population in comparison other insecticides over untreated control. The significant higher yield is recorded with Thiamethoxam 75% SG during both the cropping seasons. There is no phytotoxic effect on crop with Thiamethoxam 75% SG applied as soil drench application. Use of DEVSENA is proved killer for farmers . It is one such insecticide which is compatible with other agrochemicals . After use of Devseña crops become more patient and give good results.

It All Starts with a Seed

The seed has always been a key factor in agricultural production. Modern crop production and the science of agriculture also confirm that without seed quality we won't have a successful agricultural production.

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Chemical & Fertilizers Ltd.

Nature Protect Care

Thus seedling is the most essential and crucial input for crop production. It should be completely treated with pesticide / fungicide to protect seed-cropper pests and fungi. HPM Chemical & Fertilizers Ltd. offers many seed treatment products like DEVSENA, TAMMA, STUFF and many more. These products applied to the seed can prevent or reduce the harmful attack of many pathogens. HPM not only gives the seed treatment agrochemicals, also effectively associated with education drives with regards to spreading awareness about better seed quality, enhanced and better farming practices. HPM offers on-farm counsel and workshops to farmers on how and where to utilize all these agrochemicals.

Agriculture is one of the most fascinating subjects in the world. Crop agriculture began more than 10,000 years ago. From the beginning of crop husbandry to our time, seeds have been the key ingredient in the establishment, expansion, diversification and improvement of crop production. Seeds are, first of all, a most efficient and effective means of crop propagation. The seed has always been a key factor in agricultural production. Modern crop production and the science of agriculture also confirm that without seed quality we won't have a successful agricultural production. Seed is the vital input in crop production because through seed only the investment made on other inputs like pesticide, fertilizer, irrigation and crop maintenance can be realized. The seed required for raising the crop is quite small and its cost is also less compare to other inputs, but the greater income farmer gets depends upon the quality of the small quantity of seed he uses.

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PROFICIENT TEAM
Creates a team of 300 professionals across 100+ locations with regional expertise in Research, Development and Sales.

GLOBAL PRESENCE
Operating in more than 50 countries.

TOUCHING COUNTLESS LIVES
300 staff in 100 countries in 50 countries.

SUCCESSION MEASURES
Our success and legacy measures.

Nature Protect Care

Our Services
Crop Protection
Soil Management
Fertilizer Solutions Services

Realizes a shared vision of global integrated agricultural offerings, delivering enhanced solutions for farmers and creates a leading innovation engine for the next generation of farming. We create something which is meaningful and extends beyond business – a better life for farmers. To be present in all countries, providing quality agri-solutions to farming community, as a renowned company with size and profitability, while not only preserving but enhancing the environment. HPM is known as a leader in the agro chemicals industry and as a company that plays a large role in revolutionizing the industry, by promoting and providing best solutions to all the farming needs, developing new science and innovations.

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Chemical & Fertilizers Ltd.

YOU TAKE CARE OF THE SOWING
HPM WILL TAKE CARE OF THE GROWING

Nature Protect Care

Our Services
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Floriculture is increasingly regarded as a viable diversification from traditional field crops due to increased per unit returns and increasing habit of "saying it with flowers" during all the occasions. Rose has always been admired for its beauty and fragrance. It occupies the first position in International market of cut flowers. Rose cultivation in India is becoming more and more popular because of its increase in demand as cut flower and higher commercial gains. Commercial rose flower growing include production and sale of plants, flower and their products. The rose flowers are marketed either as loose flowers or as cut flowers. In loose flower trade fully developed flowers suitable for garland making are marketed. HPM provides a wide range of products for rose cultivation.



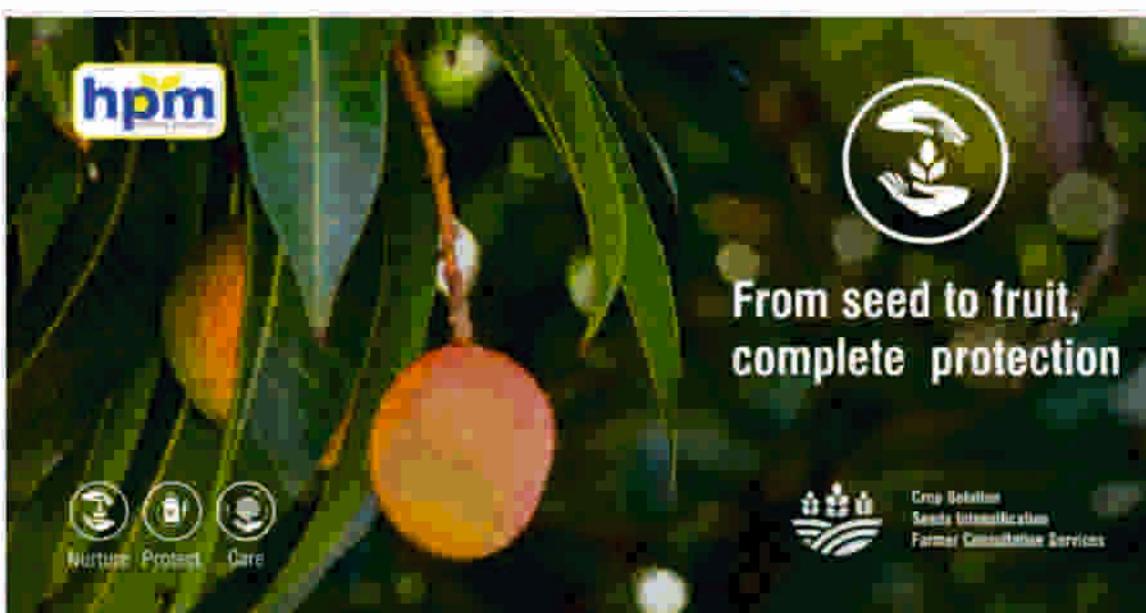
The family Cucurbitaceae is an extremely interesting and in many ways unusual, family of dicotyledons, including about 90 genera and more than 700 species which are widely distributed over in many parts of the world. This group includes a large number of vegetable fruit crops and all are trailing vine crops, grown during summer season but some can be grown during rainy periods. The plants in this family are grown around the tropics and in temperate areas, where those with edible fruits were among the earliest cultivated plants in both the Old and New Worlds. The Cucurbitaceae family ranks among the highest of plant families for number and percentage of species used as human food. With its wide range of products HPM provides a complete crop protection for cucurbit cultivation.



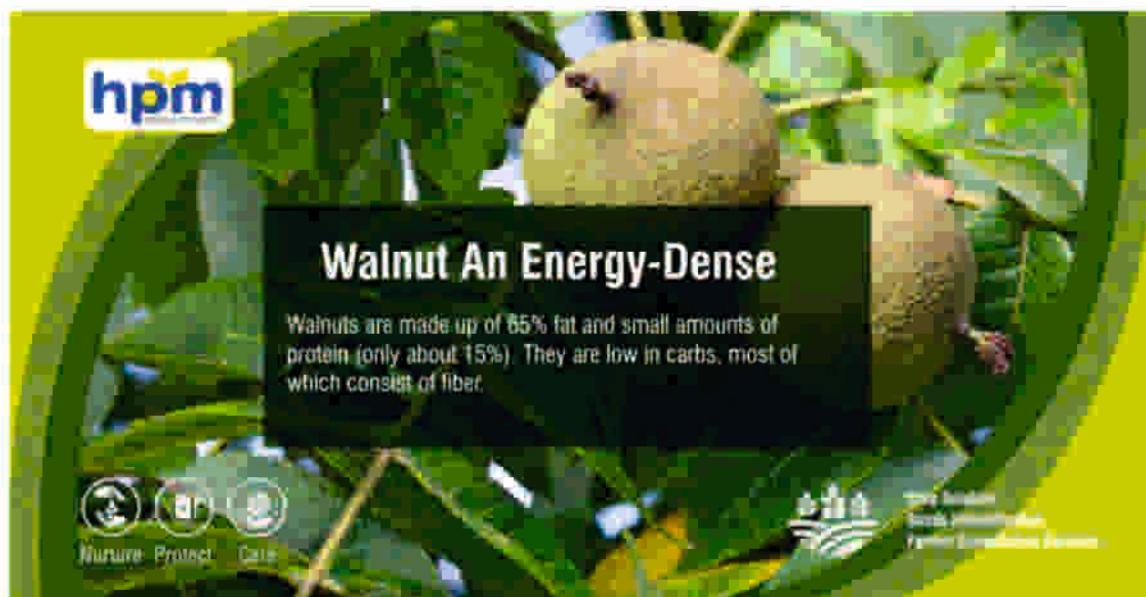
The onion is one of the most important commercial vegetable crops grown in India. The demand for onion is worldwide. It is used both in raw and mature bulb stage as vegetable and spices. The pungency in onion is due to a volatile oil known as allyl-propyl-disulphide. It has been used as a herbal remedy for cataracts, in colds, coughs, bronchitis and many other diseases. Now it is found beneficial in cardio-vascular diseases, diabetes and respiratory tract diseases, cancer etc. This spicy vegetable is mostly consumed because it has excellent health benefits along with high nutrition value. With its wide range of products HPM provides a complete crop protection for onion cultivation from begin to trim.



Despite tomato plants' popularity, they can be tricky to grow. The finicky plants are susceptible to fungi that can cause damage from shriveled foliage to rotted fruit. The most common tomato fungi include early blight, late blight, anthracnose and septoria leaf spot. Fortunately, tomato fungi are also easy to identify and the cures and preventative measures are similar. HPM's Tago is a Non-systemic fungicide with Protective and Curative action. It is used against the Damping off disease in Chilli, Tomato, cabbage and tobacco. It controls Soil borne infection of fungal diseases.



Mango is one of the choicest and most ancient fruits known to mankind. It occupies a pre-eminent place amongst the sub-tropical fruits hence while doing mango cultivation we have to take care of a number of things so that the nutritional value of mango is preserved and we can have high quality mangoes. Banganpalli (Baneshan), Totapuri (Bargatora, Collector, Chittoor mamidi), Savamorekha (Sinduri, Lal Sunderi), Neelum, Dasliehari, Peddaramsent, Chinnarasi, Navaneetham are the some famous varieties of mango. With it's wide range of products HPM provides a complete crop protection from seed to fruit.



Walnuts are edible seeds from the trees of Juglans genus. Walnuts have always been considered as 'brain food', perhaps because the surface structure of the walnut has a crinkly appearance like that of the brain. The health benefits of walnuts include reduction of LDL (bad) cholesterol in the body, improvement in metabolism, weight management, and control of diabetes. Other important health benefits of walnuts stem from the fact that these nuts possess anti-inflammatory properties, improve brain health, and help as a mood booster. They are also believed to slow down the spread of cancer. HPM provides a complete range of products for this 'brain food' crop.



Orange is most common among citrus fruits grown in India. It occupies nearly 40% of the total area under citrus cultivation in India. In India, in terms of area under cultivation, citrus is the third largest fruit industry after Banana and Mango. Nagpur mandarin is one of the best mandarins in the world. Production of this fruit crop in central and western part of India is increasing every year. Orange is rich in vitamin C, A, B and phosphorus. Orange is consumed fresh or in the form of juice, jam, squash and syrup. It is the main source of peel oil, citric acid and cosmetics which have international market value.

HPM is here to help, Farmers all over the world . In such a way, HPM is completing a great measure of commendable work. For the progress of farmers affiliation is giving them the best quality insecticides, fungicides, herbicides and plant growth regulators . Beyond products, we provide information on application techniques and the environmentally-friendly disposal of unused product. Our special field visit team go and advise farmer on their home turf. Our specialists in the field are equipped with an extensive global know-how base which helps them to offer highly specific advice, service and support to farmer everywhere .

Cabbage plant is a storehouse of vitamins and minerals. This vegetable first appeared as a wild leafy plant over 4,000 years ago in Europe throughout the Mediterranean region. Cabbage quickly became a highly favored food because of its high nutrition content. As a result, this vegetable was selectively refined and propagated to the point where its leaves grow in large clusters and over time became the cabbage heads of today. Cabbage's nutritional value lies mostly in the leaves of the plant. As far as nutritional content goes, some of the nutrients found in cabbage include Calcium , Iron, Magnesium, Phosphorous, Sulfur, Silica, Vitamins A, B, C, E and K. Taste demand is evolving and the production of cabbage is becoming more specialized every day.

PACK OF HEALTH BENEFITS

ANTI-BACTERIALS

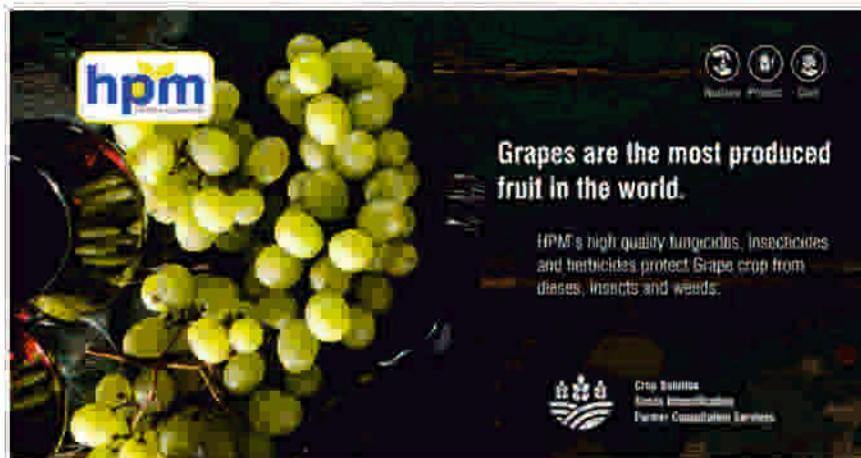
Cabbage has anti-inflammatory and anti-bacterial properties. Cabbage's anti-bacterial properties work inside the body's cell processes and aid in detoxifying the body's major systems.

RICE IN BAG

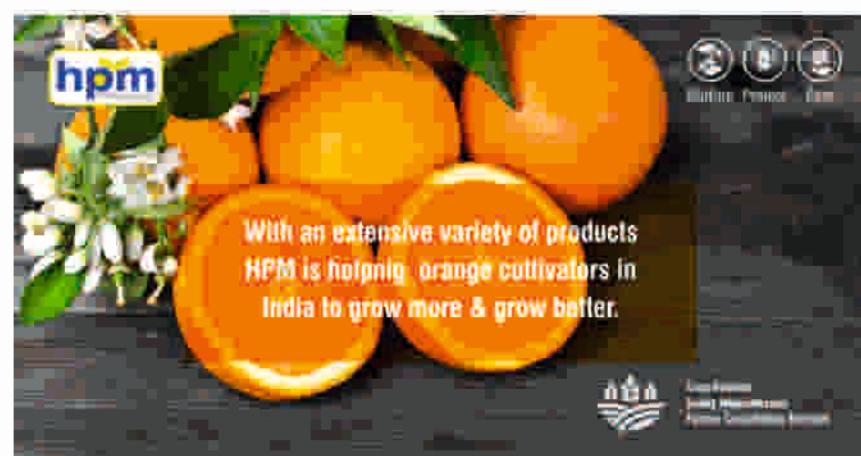
Staple source of vitamins and minerals.

Cabbage is one of the major vegetables produced and consumed in India. Cabbage 0.24 m ha but it's productivity remains very-2 low. One of the major constraints identified in it's production is the increasing incidence of insect & pest. Due to it's tender and supple nature and it's cultivation under high moisture & input regimes, cabbage is more prone to pest attack and at a conservative estimate cause about 30-35 % losses. Over the years, it has been cultivated more intensively. This has resulted in higher rates of pest infestation, especially by the diamondback moth. The caterpillars are pale yellowish green while the adult is a small greyish moth. A patch of three diamond shaped yellowish white spots is visible by joining both the forewings, hence the name 'diamond back'. Young larvae feed by scraping leaf tissues causing typical whitish patches on under side of leaves. Grown up larvae bite holes in the leaves. Damage to the crop is more in the main and late winter season as compared to rainy season crop in the India.

HPM Chemical & Fertilizers Ltd. is focused in creating value for our farmers in the development of high performance crop care solutions. Designed to better products for farmers for meeting today's global challenges. Evolving farming practices and maturing consumer needs; our product innovations provide continued advancements in agricultural productivity. And our Rise is the best solution for cabbage growers. Rise act as acaricides in the vegetable segment. It is available in water soluble pouches with in pack for ease of application. Difenthloron 50% WP is a broad spectrum insecticide, controls nymph & adults & give longer lasting control. It paralyses the pest, which remain immobile on the crop until death in about 3-4 days.



Grape is one of very popular crops in the world. This crop is grown commercially in most of the countries. Grapes usually grow on the perennial and deciduous woody climbing vine. Grapes can be eaten as fresh (raw) fruits or used for making juice, jelly, jam, vinegar, wine, raisins, grape seed oil and grape seed extracts. Grapes are good source of minerals like calcium, phosphorous, iron and vitamins like B and grapes have an excellent health benefits. Grapes belong to the family of "Vitaceae" and originated in Western Asia and Europe. Grapes occupy 16% of world fruit production. Commercial cultivation of grapes mainly intended for table purpose, export purpose, making wine and making raisins. With proper care and vine management, one can expect decent profits from commercial cultivation of grapes by supplying to local markets and exporting to international markets. Organic grape farming is the best bet, if you are planning for commercial cultivation. PM is offering such a significant number of products, guarantees finish security of these supplement powerhouses from bugs, weeds and illnesses.



Orange is one of the top citrus fruits being grown in most of the countries after banana and apple. The most important commercial citrus species are mandarin, sweet orange and acid lime. In this article, we present about growing sweet oranges/mandarin oranges. Oranges have great economic importance due to its wide range of uses and benefits. This fruit is rich in vitamins like C, A, B and phosphorus. Oranges can be consumed fresh or in the form of juice, squash, syrup and jam. Oranges are main source of peel Al, citric acid and cosmetics. These orange products have an excellent value in the international market. Orange tree belongs to the family of "Rutaceae" and genus of "Citrus". There are several different types of sweet oranges grown across Asia and other parts of world. However, one of the most common types is called the "Valenda" orange. This cultivar comes from Spain and is also grown in Africa and Australia.



HPM has led and drove the agro-chemical industry in India and abroad. In such a way, the country's driving association hpm India is finishing an impressive measure of commendable work. For the headway of farmers association is giving them the best quality insecticides, fungicides, herbicides and plant growth regulators. HPM's skillful work compel continually endeavors to enhance and make an extensive variety of yield assurance products and plant supplements. Our fungicides are highly effective specially against smut & blotch in barley, wheat, hops, lettuce, melons, peppers and strawberries. They are just excellent crop safety profile and does not disturb any biological control agent such as predatory allies.

Hiroxin belongs to benzimidazole group. Hiroxin is a systemic fungicide with protective and curative action. It is absorbed through the roots and green tissues, with translocation acropetally. It is used in various ways such as seed treatment, soil drench, soil mixture and foliar sprays. It is used to control of paddy sheath blight, Blast, Loose smut of Wheat & Barley, Cotton leaf spot, Jute seedling blight, groundnut Tikka leaf spot, Sugar beet leaf spot and powdery mildew.



Apples are the oldest commercial fruit that is grown every corner of the world. After Banana farming, Orange farming, Apple farming | Cultivation top the list of commercial farming. So, growing apple trees is a good idea, rather than going for any other commercial farming. There are lots of health benefits of eating apples, because of which an apple a day is suggested by numbers of people. Apples are extremely rich in important antioxidants, flavonoids, and dietary fiber. The phytonutrients and antioxidants in apples may help reduce the risk of developing cancer, hypertension, diabetes, and heart disease. This article provides a nutritional profile of the fruit and its possible health benefits. We at HPM offers a wide range of products that improve the apple cultivation in India, our Appit is the best answer for the apple growers.



We, at HPM India appreciate this move by the government and are in absolute support to improve the conditions of agriculture and farmers of the nation. We have been manufacturing fantastic agrochemicals and composts to enable our farmers to improve yield from their harvests by maintaining a strategic distance from bother contaminations and other nature based risks.



It is cultivated for fodder as well as for grain purpose. Also it is used as vegetable and green manure crop. It is drought tolerant crop and also thrives in semi-arid regions. Guar gum is extracted from guar beans (endosperm of seed) has several industrial uses. It is used to make gum powder which is used in Oil extraction Industry, food processing and preservation, printing, textile and paper industry. It can be grown on all type of soils. It gives best result when grown on well drained sandy loam soils. We at HPM offers a wide range of products that improve the guar cultivation in India.

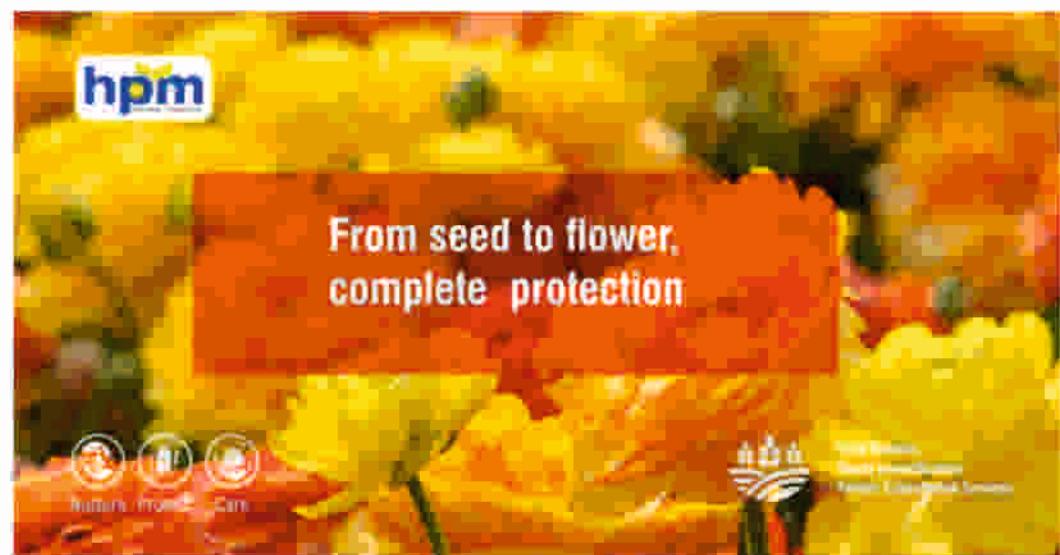


Cotton is a plant that is cultivated for a multitude of purposes and products. Long cotton fibers are used to make thread, yarn, textiles, clothes and other products, like towels, carpets, sheets, and more. Clothes made out of cotton are especially light and comfortable. The short fibers can be used in the paper industry. Cotton seeds have some important uses, too. Primarily, the seeds are used to produce cottonseed oil and margarine. The crushed remains of the seed can be used as a high-protein feed for cattle and other animals. After the cotton is picked, the stalks and leaves of the plants are plowed under to enrich the soil. HPM's Typhon is a prudent answers for cotton producers. This item has high similarity with different items.

Aiming towards our mission of ensuring self-reliance in productivity, we have worked successfully to incorporate the best innovative practices in our processes. As a leading pesticide company both nationwide and globally, we are the proud fore-runners and contributors to the Green Revolution drive. Our adroit work force constantly strives to innovate and create a wide range of crop protection products and plant nutrients. Using the latest technological advancements we produce the finest fertilizers and farming seeds. The shelf life of our products holds longer than any other.



Marigold is grown as an ornamental crop for loose flowers as well as a source of pigment for poultry feed. Flowers are sold in the market as loose or after making into garlands. Other than loose flower, it can also be used as cut flower. Marigold is used especially for beautification and also in landscape plans due to its variable height and colour of flowers. It is highly suitable as a bedding plant purpose in herbaceous border and shrubbery. French marigold is ideal for rockeries, edging, hanging baskets and window boxes. Leaf paste is used externally against boils and carbuncles. Leaf extract is a good remedy for ear ache. Flowers extract is considered as blood purifier, a cure for bleeding piles and is also a good remedy for eye disease and ulcers. The essential oil present in different species of Tagetes can find use in the perfume industry.



Safflower Oil is good for the heart, blood vessels, hair, skin, muscles and immune system. It lowers cholesterol levels, prevents stroke, atherosclerosis, clotting disorders and heart diseases. It helps to manage hyperglycemia, reduces weight and gives relief from symptoms of premenstrual syndrome. It also increases immunity, so it reduces the frequency of infections. In respiratory diseases, it loosens phlegm and acts as an expectorant, so it helps to clear the lungs and eases breathing. Safflower Oil is extracted from the Safflower seeds. The seeds are white and contain a high amount of proteins and good fat. The oil extracted from safflower seeds is colorless and flavorless. Its nutritional value is comparable to sunflower oil. There are two types of edible oil one contains monounsaturated fatty acid (oleic acid) and second contains polyunsaturated fatty acids (high linoleic). It contains less saturated fatty acids than olive oil. So, it is a better replacement for less healthy vegetable oils with affordable price.





Pomegranate is one of the commercial fruit crops of India. It is native to Iran (Persia), yet regular irrigation is mandatory to commercial yield production. Water levels and optimal irrigation regime depend on a plurality of factors as soil type, tree size, physiological phase and potential evaporation. As a rule the tree needs little supplemental irrigation. The commonly used irrigation regime in pomegranate orchards relies mainly on the experience gained by growers and less on formal experiments. HPM is offering such a significant number of products, guarantees finish security of these supplement powerhouses from bugs, weeds and illnesses.



Chilli is considered as one of the best spices used in Kitchen. Chillies are used in cooking, pickles and chutney. Red chillies are used as dried as well as powder both in vegetarian and no-vegetarian cooking. Due to its universal use, it is known as "the Queen of Spices". Fresh chili peppers are mainly composed of water (88%) and carbohydrates (9%). Chili peppers are rich in various vitamins and minerals. Chili peppers are very high in vitamin C. Vitamin C is a powerful antioxidant, important for wound healing and immune function. HPM is offering such a significant number of products, guarantees finish security of these supplement powerhouses from bugs, weeds and illnesses.



No matter what the season, tea can be a tasty beverage since it can be served iced or hot. At the very least, it's a flavorful way of getting enough fluid into your body each day. Tea is the dried leaf of a bush. Thus it is the most important beverage crop of India. Tea is a labour intensive crop and requires abundant supply of cheap and skilled labour, especially at the time of plucking the tea leaves. This is a tedious process which requires skilled manipulation of fingers for plucking two leaves and a bud at a time. HPM improves horticulture reasonability through begin-to-end trim arrangements. Our wide range of products ensure plant well being, advance their regular development.

Castor oil has natural antibacterial and antifungal properties and is high in Vitamin E, minerals, proteins, and Omega 6 and 9 beneficial fatty acids. Its unusually high ricinoleic acid ratio makes it beneficial to skin and hair. When it comes to beauty and skin care, it is known to reduce inflammation; it is a natural laxative and boosts immunity. HPM is offering such a significant number of items, guarantees finish security of this important crop from bugs, weeds and illnesses.



The health benefits of Indian Gooseberry, also known as Amla, can be partially attributed to its high vitamin C content. Amla enhances food absorption, balances stomach acids, fortifies the liver, nourishes the brain and mental functioning, and supports the heart. It also strengthens the lungs, regulates elimination of free radicals, enhances fertility, helps the urinary system, improves skin quality, and promotes healthier hair. This fruit acts as a body coolant, flushes out toxins, increases vitality, aids in vision care, improves muscle tone, and acts as an antioxidant. The fruit is very nourishing, but it tastes sour. Both, dried and fresh fruits can be consumed for their respective health benefits. It provides remedies for a lot of diseases and is, thus, widely used in Ayurvedic treatments. Gooseberry is very rich in vitamin C and contains many minerals and vitamins like calcium, phosphorus, iron, carotene, and vitamin B-complex. It is also a powerful antioxidant agent.



Grape is a commercially important fruit crop of India. The fruit contains about 20% sugar in easily digestible form besides being rich in calcium and phosphorus. World over it is grown mainly for wine-making (82% production), raisin making (10% production) and rest for table purpose (8%). In India, however it is mostly consumed as fresh fruit and only a limited quantity is utilized for the production of liquor, dry fruits like raisins etc. India is top on the list of the biggest vegetable and fruits makers on the planet. HPM is offering such a significant number of products, guarantees finish security of these supplement powerhouses from bugs, weeds and illnesses.





Okra is a flowering plant that is known in many parts of the world as ladies' fingers or bhindi and is most highly prized because of its seed pods. The health benefits of okra include its ability to improve digestive health and vision, boost skin health. Okra is a warm-season vegetable, also known as gumbo or ladies' fingers. It is a good source of minerals, vitamins, and fiber. It contains a characteristic viscous juice that can be used to thicken sauces. This vegetable pod can be used as a pickled vegetable, or an ingredient in soups, and side dishes, and is also utilized for its oil. Considering the importance of okra, India's leading company HPM is creating new products to enhance okra cultivation.



In India, floriculture is emerging as an important commercial crop. A lot of importance has been given to this sector due to its multiple uses, satisfying the aesthetic needs of the people, creating more employment, ensuring higher rate of returns to rural people and facilitating earning more foreign exchange. More specifically, they are being used as raw materials in the manufacture of essence, perfumes, medicines and confectionaries for direct consumption by the society. We at HPM offers a wide range of products that improve the floriculture in India.

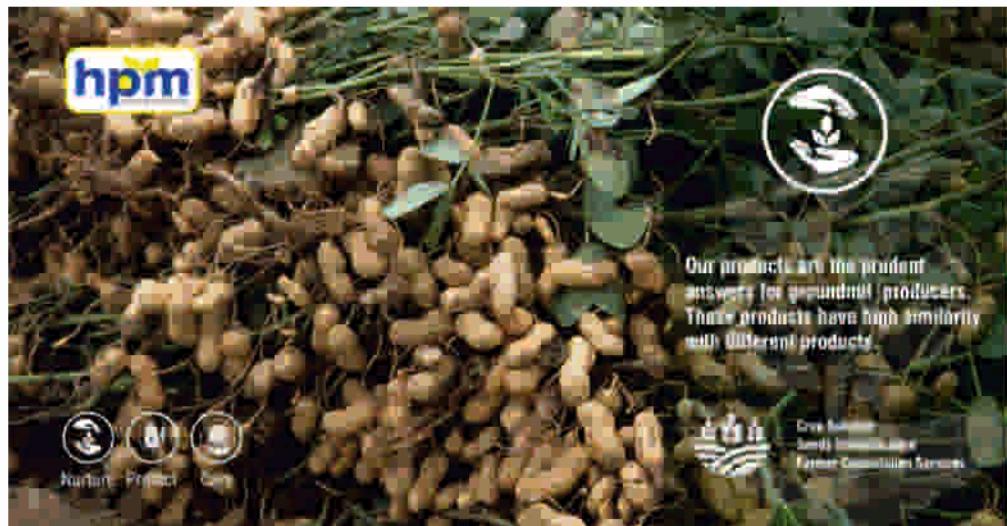


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Pineapple is one of the commercially important fruit crops of India. It is one of the choicest fruit all over the world because of its pleasant taste and flavor. It is delicious tropical fruits, which have been celebrated for centuries not only for their unique taste but also for their miraculous health benefits. The health and medicinal benefits of pineapple include boosting the immune system, and respiratory health, aiding digestion, and strengthening bones. HPM is one such agriculture company helping farmers worldwide for providing the best solutions for better pineapple farming.

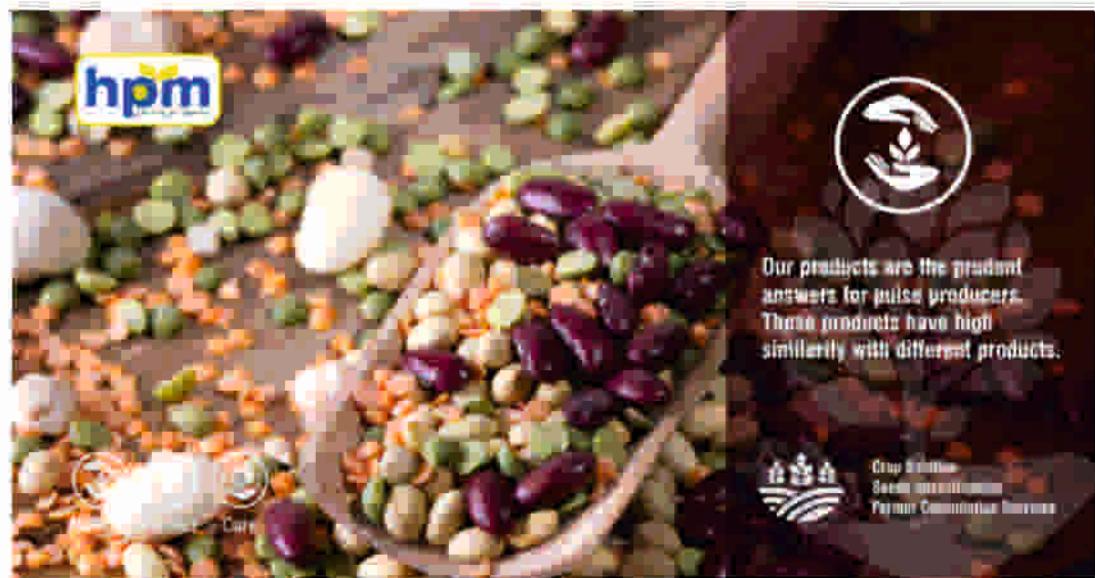


The peanut, also known as the groundnut and the goober. It is a legume crop grown mainly for its edible seeds, being important to both small and large commercial producers. It is classified as both a grain legume and, because of its high oil content, an oil crop. Peanut is an important oil, food and feed crop of the world. ... Peanuts are source of minerals, vitamins and antioxidants and health improving bioactive compounds such as resveratrol, tocopherol, arginine etc. and hence are touted as functional food. HPM has such huge numbers of products that enhance groundnut farming.



Banana is the second most important fruit crop in India next to mango. Its year round availability, affordability, varietal range, taste, nutritive and medicinal value makes it the favourite fruit among all classes of people. It has also good export potential. Banana is an important fruit crop of many tropical and subtropical regions of India. It is cultivated in India in an area of 830.5 thousand ha and total production is around 29,779.91 thousand tons. We at HPM offers a wide range of products that improve the banana cultivation in India, and is rich in vitamins particularly vitamin B. It is also a good source of potassium, phosphorus, calcium and magnesium. The fruit is easy to digest, free from fat and cholesterol. Banana powder is used as the first baby food. We at HPM offers a wide range of products that improve the banana cultivation in India.





Pulses are annual leguminous crops yielding between one and 12 grains or seeds of variable size, shape and colour within a pod, used for both food and feed. The term "pulses" is limited to crops harvested solely for dry grain, thereby excluding crops harvested green for food, which are classified as vegetable crops, as well as those crops used mainly for oil extraction and leguminous crops that are used exclusively for sowing purposes. Besides serving as an important source of protein for a large portion of the global population, pulses contribute to healthy soils and climate change mitigation through their nitrogen-fixing properties. In the diet, HPM has such huge numbers of products that enhance pulse farming in India.



Plant hormones are very important in regulating growth in plants. They control and modify a number of plant processes such as elongation of stems, formation of leaves and flowers, cross between the two, development and ripening of fruit etc. As agriculture becomes more mechanized and science increases the possibilities for using inputs to enhance production, the role of PGRs becomes more vital. Plant Growth Regulators in Agriculture and Horticulture provides agriculture professionals and researchers with the information needed to effectively tap these versatile resources to enhance crop production.



Pearl Millet (Bajra) is a coarse grain crop and considered to be a nourishment and suitable to cultivate in dry land. Pearl Millet is rich in minerals, proteins, fiber and has a high starch content. Millets are easily digestible, it can minimize the risk of diabetes, it helps prevent the gallstones, it lowers the blood pressure and reduces the risk of heart attacks; it cures stomach ulcers. Millets contribute in losing weight and is good for bone health and nervous system. Millets can do wonders, and many recipes can be made from Pearl Millets. HPM has such huge numbers of products that enhance millet farming accessibility in India.

Mustard are the third most important edible oilseed crops of the world after soybean and oil palm. The oil content varies from 37 to 49%. The seed and oil are used as condiment in the preparation of pickles, curries, vegetables, hair oils, medicines and manufacture of greases. The oil cake is used as feed and manure. The leaves of young plants are used as green vegetables and green stem and leaves are a good source of green fodder for cattle. In the tanning industry, mustard oil is used for softening leather. HPM has such huge numbers of products that enhance mustard yield, we help increment protein encourage and vegetable oil accessibility in India.



Sorghum is one of the main coarse cereal crops of India. India is second largest producer of sorghum in the world. This crop is ideally suited for semi-arid agroclimatic regions of the country and, it gives reasonably good yield with minimal requirement of irrigation and fertilizers as compare to other cereals such as Wheat & rice. HPM is offering such a significant number of products that enhance sorghum farming.



Insects are responsible for a huge damage to growing crops through feeding insects into the plant, which eats leaves or burrows in stems, fruit, or roots and indirectly damage the crop by transmitting bacterial, viral or fungal infection into a crop. Pesticides are used worldwide to manage agricultural pests. They kill and repel unwanted pests. HPM offers an array of insecticides used in India, and advices on dosage and best usage practices.



hpm

India is the second largest producer of fruits and vegetables in the world.

HPM with its range of more than 20 items guarantees greatest respect fulfill the developing interest for fresh products.

Nature Protect Care

Crop Solutions
Soil Management
Farmer Consultation Services

Vegetables and fruits are progressively turning into a critical place of substance propensities worldwide because of their incalculable medical advantages. Furthermore, India is top on the list of the biggest vegetable and fruits makers on the planet. India is the largest producer of ginger and okra amongst vegetables and ranks second in production of potatoes, onions, cauliflowers, brinjal, Cabbages, etc. Amongst fruits, the country ranks first in production of Bananas (26.04%), Papayas (44.51%) and Mangoes (including mangosteens, and guavas) (40.75%). HPM is offering such a significant number of items, guarantees finish security of these supplement powerhouses from bugs, weeds and illnesses.

hpm

Delivering high quality herbicides to farmer all around the world.

Nature Protect Care

Crop Solutions
Soil Management
Farmer Consultation Services

Weeds are unwanted and sometimes problematic plants that grow with crops and hinder their growth. Weeds cause trouble for crops by absorbing their share of water, soil nutrients, light and space and by interfering with irrigation and harvesting activities and by accommodating insects, pests and other sources of diseases. HPM has a range of herbicides highly capable of eradicating weeds and preventing their re-growth, without much human labor.

hpm

Next to cotton, jute is the second important fibre crop of India. Jute is in great demand because of the cheapness, softness, strength, length, lustre and uniformity of its fiber.

Nature Protect Care

Crop Solutions
Soil Management
Farmer Consultation Services

Jute is an edible leafy vegetable which is a member of genus *Corchorus* classified under the subfamily Grewioideae of the family Malvaceae. It is widely found in tropical and subtropical areas from Asia to Africa appreciated as food and for its strong fiber. Jute fibres are long, lustrous, resilient and softer to touch. It has a natural colour in light tan to brown range and its fiber can be bleached and can be dyed well. The leading world's jute producing countries are India, Bangladesh, China and Thailand. India is the world's largest producer of raw jute and jute goods, contributing to over 50 percent and 40 percent respectively of global production. HPM has such huge numbers of products that enhance jute cultivation.

Maize has turned into a staple substance in many parts of the world, with add up to creation outperforming that of wheat or rice. Nonetheless, not the greater part of this maize is devoured specifically by people. A portion of the maize creation is utilized for corn ethanol, creature bolster and other maize items. HPM has such huge numbers of items that enhances maize farming.



Fungi are one of the major cause of crop loss worldwide. Fungi are eukaryotic (membrane bound nucleus) organisms that develop from reproductive bodies called spores. They can cause a number of diseases in animals and plants. As a disease of plants and animals, fungi are a risk for Indian primary producers as they impact upon market access and agricultural production. HPM offers a number of Fungicide products to for plant protection from various fungi.



Sesame seeds are truly one of the most ancient foods on earth. In fact, sesame plants are the oldest known plant species to be grown primarily for their seeds (pods) and oils rather than for their leaves, fruit or vegetables. Highly valued in Indian culture, sesame seeds (*Sesamum indicum*) have been used for thousands of years to flavor foods, provide essential fats and enhance skin health. Sesame has one of the highest oil contents of any seed and a rich, nutty flavor, which is why sesame oil, tahini and the seeds themselves are common ingredients in cuisines across the world. One of the first oil seeds known to humankind, sesame seeds have been widely employed in culinary as well as in traditional medicines for their nutritive, preventive, and curative properties. Sesame is a primary source of phytonutrients such as omega-6 fatty acids, flavonoid phenolic anti-oxidants, vitamins, and dietary fiber with potential anti-cancer as well as health promoting properties.



The greater part of the total populace eats wheat as their primary nourishment.

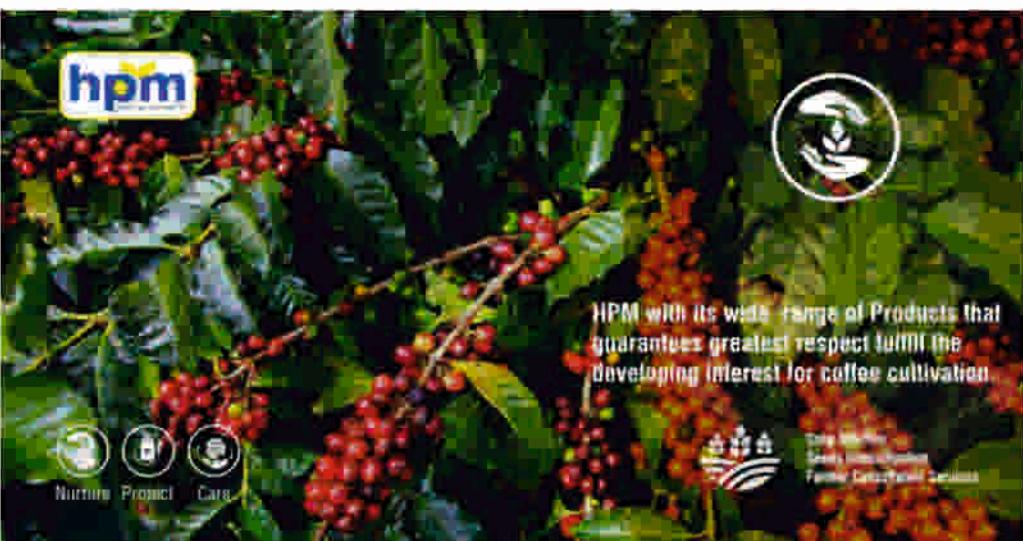
HPM is working towards expanding wheat production with their such huge numbers of insecticides that secure the wheat crop during its life cycle.

HPM Crop Solution
Seeds Intensification
Farmer Consultation Services

Wheat is grown on more land area than any other food crop (220.4 million hectares, 2014). World trade in wheat is greater than for all other crops combined. In 2016, world production of wheat was 749 million tonnes, making it the second most-produced cereal after maize. It is a staple food in numerous nations and subsequently its utilization is specifically corresponding to the populace development. Utilization has been continually expanding amid the most recent 15 years with the expansion in populace, and alarmingly, is set up to shoot up further. With over such huge numbers of products, HPM has been attempting to help this imperative product for nourishment security. HPM has such huge numbers of products that enhance wheat farming.



Water conditioner changes the chemical structure of the hard Water. This forces decomposes the molecules into a new form, It just changes molecular structure of the minerals make it in pure form , so the calcium , iron and other minerals stay in the water but never form hard scale at walls of piping, fixtures, and appliances. These all silent minerals are very much important for crop and human. The water coming from water conditioners never form a crusty layer of salt or iron on the ground , these all minerals are more easily absorbed into the ground and the crops, which gives both a healthier environment to grow crops and increases the yield. HPM's "GLORY " contains all these quality and play an important role in agriculture requirements.



Coffee is the second most important beverage crop of India next only to tea. It is indigenous to Abyssinia Plateau (Ethiopia) from where it was taken to Arabia in 11th century. From Arabia, its seeds were brought to India by Baba Budan in the 17th Century and were raised in the Baba Budan Hills of Karnataka. Coffee production in India is dominated in the hill tracts of South Indian states. Indian coffee is said to be the finest coffee grown in the shade rather than direct sunlight anywhere in the world. There are approximately 250,000 coffee growers in India; 98% of them are small growers. Coffee plant requires hot and humid climate with temperature varying between 15°C and 28 °C and rainfall from 150 to 250 cm. It does not tolerate frost, snowfall, high temperature above 30°C and strong sun shine and is generally grown under shady trees. Prolonged drought is also injurious to coffee.



Rice is the most important human food crop in the world, directly feeding more people than any other crop. In 2012, nearly half of world's population – more than 3 billion people – relied on rice every day. It is also the staple food across Asia where around half of the world's poorest people live. Rice has also fed more people over a longer time than has any other crop. It is spectacularly diverse, both in the way it is grown and how it is used by humans. Rice is unique because it can grow in wet environments that other crops cannot survive in. The rice plant has a wide array of 'enemies' in the field. These include rodents, harmful insects, viruses, diseases, and weeds. The world rice crop is attacked by more than 100 species of insects; 20 of them can cause economic damage. Insect pest that can cause significant yield losses is stem borer (which cause direct damage by feeding as well as by transmitting viruses) and a grain-sucking bug complex that feeds on developing grains.

The stem borers, generally considered the most serious pests of rice worldwide, occur and infest plants from seedling stage to maturity. Fifty species in three families-Pyralidae, Noctuidae (Lepidoptera), and Olopidae are known to attack the rice crop . Thirty-five pyralids belonging to 12 genera, 10 noctuid species belonging to 3 genera, and 5 diopsid species belonging to the genus Diopsis have been recorded as rice stem borers. The pyralid borers are the most common and destructive, and usually have high host specificity. The noctuid borers are polyphagous and only occasionally cause economic losses to the rice crop. In Asia, the most destructive and widely distributed are yellow stem borer *Schrpophaga incertulas*, striped stem borer *Chilo suppressalis*, white stem borer *Schrpophaga littoralis*, darkheaded stem borer, *Chilo polychrysus*, and pink borer *Sesamia inferens*. In India, *Schrpophaga incertulas* and *Chilo suppressalis* are responsible for a steady annual damage of 5-10% of the rice crop, with occasional localized outbreaks of up to 60%. The initial boring and feeding by larvae in the leaf sheath cause broad, longitudinal, whitish, discolored areas at feeding sites, but only rarely do they result in wilting and drying of the leaf blades. About a week after hatching, the larvae from the leaf sheath bore into the stem and, staying in the pith, feed on the inner surface of the walls. Such feeding frequently severs the apical parts of the plant from the base. When this occurs during the vegetative phase of the plant, the central leaf whorl does not unfold, but turns brownish and dries off, although the lower leaves remain green and healthy. This condition is known as deadheart and the affected tillers dry out without bearing panicle.

Since it is one of the important crop, it is vital to guarantee the quality and amount of the create is appropriately kept up. To help Farmers with this procedure, HPM Chemical & Fertilizers Ltd., one of India's driving manures makers, has a variety of products in its portfolio to guarantee the crops are free from any harm from pests or insects. And TITYUS(Cartap hydrochloride 75% SG) is the prudent answer for ruinous stem borer. It is Moretoxin poison. It has contact, systemic and stomach action which gives effective control. It controls yellow stem borer, Leaf folder in Rice crop. It is effective to control biting, chewing and sucking types of insect pests. It is compatible with other commonly used insecticides and fungicides. It also controls larvae which are resistance to conventional insecticides. It has no effects to natural enemies, fish, animals, human beings, crops and hence safe to environment.

India has a glorious past, pleasant present and a bright future with respect to production and export of spices. Among the spices, is the most important dollar earning crop which has a decisive role in our national and state economies. It is an herb. The seeds and oil from the seeds are used to make medicine. Cardamom is used for digestion problems including heartburn, intestinal spasms, Irritable bowel syndrome. It is an important spice which is used for flavouring foodstuffs. HPM has such huge numbers of products that enhance cardamom cultivation. Our products are the prudent answers for cardamom producers.



The start of commercial exploitation of soybean in India is nearly four decades old. In this period, the crop has shown unparalleled growth in area and production. Soybean has established itself as a major rainy season crop in the rainfed agro-ecosystem of central and peninsular India. Soybean is the world's most important seed legume, which contributes to 25 % of the global edible oil, about two-thirds of the world's protein concentrate for livestock feeding. Soybean meal is a valuable ingredient in formulated feeds for poultry and fish. The cultivation and use of soybean could be traced back to the beginning of India's agricultural age. Indian medical compilations, dating back 6,000 years, mention its utilization for human consumption. India in the world soybean area is 10 %, but the contribution to total world soybean grain is only 4 % indicating the poor levels of productivity of the crop in India as compared to other countries.

Weeds can reduce soybean yield by 1% per day if left uncontrolled after the V2 to V3 stage of soybean growth. Crop losses in yield and quality due to weed interference, as well as costs of controlling weeds, have a significant economic impact on crop production. Throughout India, weeds are spreading faster than they can be controlled. Farmers have experienced weed invasions. *Echinochloa crusgalli*, *Digera arvensis*, *Commelinabenghalensis*, *Amaranthus viridis* and *Portulaca oleracea* are most harmful weeds of soybean, but *amaranthus viridis* affect the crop more than other weeds. It is also known as jungli choula. Amaranth is an annual weed with stems erect or occasionally ascending, 10–80 cm long. Stems are sparingly to densely branched, channelled. Leaves are triangular-ovate to narrowly rhombic, 2–7 cm long, 1.5–5.5 cm wide, hairless, tip usually narrow and with a small narrow notch, stalks 1–10 cm long. Flowers are green, in slender, paniculate spikes, in leaf axils or at the end of branches. Both sexes are mixed throughout the spikes, but female flowers are more numerous, bracts and bracteoles whitish, triangular-ovate to broadly lance-shaped, membranous, with a short, pale or reddish. If there is a problem, there is a solution too. And the solution is "HPM".

HPM Chemical & Fertilizers offers powerful products and some of them are extremely off-beat and accompanied extra advantages to crops. One of such herbicide is PENPYR 32 a selective herbicide. It is an Emulsifiable Concentrate containing Pendimethalin 30% and Imazethapyr 2% as active ingredient. It is a selective herbicide for the control of susceptible annual grasses, sedges and broad-leaved weeds in Soybean crop. It is an unique combination product with two different mode of action. Pendimethalin is absorbed by the roots and leaves. Affected plants die shortly after germination or following emergence from the soil. Imazethapyr is absorbed by the roots and foliage, with translocation in the xylem and phloem, and accumulation in the meristematic regions. At HPM we make a sensible choice for the betterment of your crops.



Cotton is a part of our daily lives from the time we dry our faces on a soft cotton towel in the morning until we slide between fresh cotton sheets at night. It has hundreds of uses, from blue jeans to shoe strings. Clothing and household items are the largest uses, but industrial products account from many thousands of bales. All parts of the cotton plant are useful. The most important is the fiber or lint, which is used in making cotton cloth. Linters – the short fuzz on the seed – provide cellulose for making plastics, explosives and other products. Linters also are incorporated into high quality paper products and processed into batting for padding mattresses, furniture and automobile cushions. The cottonseed is crushed in order to separate its three products – oil, meal and hulls. Cottonseed oil is used primarily for shortening, cooking oil, and salad dressing. The meal and hulls that remain are used either separately or in combination as livestock, poultry and fish feed and as fertilizer. The stalks and leaves of the cotton plant are plowed under to enrich the soil. Some cottonseed also is used as high-protein concentrate in baked goods and other food products.

Bajirao has unique chemical properties, which result in excellent control of cotton jassids. It has long systemic effect i.e. immediately after spray it is absorbed by the plants and thus give longer protection to the sprayed crop. Bajirao is a suspension concentrate insecticide, a mixture of Indoxacarb 14.5% + Acetamiprid 7.7% SC (a.i.). It is used for the control of jassids, white fly & bollworm on cotton and thrips & fruit borer on chillies. Indoxacarb acts on the sodium channel of nervous system resulting paralysis and death of the insect. Acetamiprid causes hyper-excitation to cause lethargy and paralysis to insect. Bajirao is found to be more efficient in reducing jassid population in comparison other insecticides over untreated control. The significant higher yield is recorded with (Indoxacarb 14.5% + Acetamiprid 7.7% SC) during both the cropping seasons. Use of BAJIRAO is proved killer for farmers. It is one such insecticide which is compatible with other agrochemicals. After use of BAJIRAO crops become more potent and give good results. Use BAJIRAO and be ready for the potential battle with crop eating PEST.

HPM chemical & fertilizers ltd. offers a variety of products to battle creepy crawlies. (Indoxacarb 14.5% + Acetamiprid 7.7% SC) is a prevalent product to protect your cotton crop. We are conferred towards helping Indian farming and endeavors towards making the nation a leading producer in the world.

Cotton is susceptible to a wide range of insect pests. Among the most destructive is the cotton jassid. Jassids are well known all over the world as a serious pest of a cotton. Protection of cotton crop from the jassids at its early growing stage is very important because it is a proven fact that a good plant stand at initial stage results in good produce. As cotton crop is attacked by a number of jassids during its early growing stage, jassid attacks cotton plants throughout the year and lays its eggs in soft plant tissue. Cotton jassids are more active during the hot periods of summer. Adults are small, like the tip of a lentil, and flat. Adults are usually yellowish-green or white with black spots on the front wings. They jump and fly away at the slightest disturbance. The cotton jassid sucks sap from the underside of leaves and leaf buds. When jassids are abundant, cotton growth is stunted, the leaves turn downwards and heavy fruit loss may occur on pre flowering plants. Leaves turn pale and a rust red colour develops at the edges. During a severe attack, leaf shedding occurs.



Sugarcane is the main source of sugar in Asia and Europe. Sugarcane is grown primarily in the tropical and sub-tropical zones of the southern hemisphere. Sugarcane is the raw material for the production of white sugar, jaggery (gur) and khandsari. It is also used for chewing and extraction of juice for beverage purpose. The sugarcane cultivation and sugar industry in India plays a vital role towards socio-economic development in the rural areas by mobilizing rural resources and generating higher income and employment opportunities. About 7.5 percent of the rural population, covering about 45 million sugarcane farmers, their dependents and a large number of agricultural labour are involved in sugarcane cultivation, harvesting and ancillary activities. It is one of the important commercial crops grown in India. However, the crop is highly susceptible to various insects. The white grub is on top of the list.

For over a decade, this pest has spread over a large area and has become almost a menace. Accordingly, it is evident that the problem is serious in nature and merits immediate attention of the HPM Chemical & Fertilizers Ltd., for its effective control in the field conditions. Realising its importance, the organisation has recently formulated a special insecticide to eliminate this problem and has decided to initiate a National Programme for the awareness of this problem. Now HPM has brought a new product 'Ganno' for sugarcane, which is a Contact & Systemic insecticide. Ganno is a pre-mix of Fipronil 40% and Imidacloprid 40% (a.i.) as a water dispersible granule in the formulation. It is an unique combination product with dual action against pest. It is suitable to control problems of white grub in Sugarcane. The active ingredient Fipronil is toxic after ingestion with some contact action and acts by interfere the transmission of nerve impulse. Another active of Ganno, Imidacloprid disturbs the signal transmission and leading finally the death of the treated insects. It show elongated persistence with excellent control. It show definite effect on plant growth, resulting with better yield. The use of "Ganno" will end the problem of White Grub. It is one such insecticide which is compatible with other agrochemicals.

Blackgram or urdbean is of ancient cultivation in India. Although introduced in southern United States, the West Indies and other tropical areas, the crop is extensively cultivated in India. Plant is densely hairy, annual with grown – habit which varies from erect to spreading. Blackgram occupies 3.2 million ha area and contributes 1.33 million tonnes to pulse production. Like gram, it is cultivated mainly as kharif crop almost in all states and has a greater place in hill agriculture. Black gram is a hard and drought tolerant crop which can tolerate high temperature. Beside pulse, it is widely used as feed and green manure in green condition. Therefore, as a pulse crop, black gram is an important one. It is one of the important pulse crop grown throughout India. Generally it is consumed in the form of 'Dal'. It is the chief constituent of 'papad, idly and dosa'. For milch cattle, it is used as nutritive fodder. It is also used as green manuring crop. It controls soil erosion and compete with weeds effectively due to its deep root system and foliage cover. It contains protein (25%), carbohydrates (60%), fat (1.3%) and free in phosphoric acid. It accounts 1.9 % total pulses area and 10 % total pulses production in India. It fixes atmospheric nitrogen into soil and improve the soil fertility. As the production of the crop is increasing, so the problems are increasing too. Weeds are a serious problem throughout the nation.



Weeds are one of the major threats to the agriculture. It compete with crops for one or more plant growth factors such as mineral nutrients, water, solar energy and space and they hinder crop cultivation operations. Weeds reduce farm and forest productivity, they invade crops, smother pastures and in some cases can harm livestock. They aggressively compete for water, nutrients and sunlight, resulting in reduced crop yield and poor crop quality. Goose grass (Eleusine indica), Wild finger (Dactyloctenium aegyptium), Crotalaria (Crotalaria juncea), Love grass are the most harmful weed of the black gram.



SYSTEMIC FUNGICIDE WITH PREVENTIVE AND CURATIVE ACTION. ABSORBED BY THE LEAVES, WITH ACROPETAL AND STRONG TRANSLAMINAR TRANSLLOCATION. IT STOPS THE DEVELOPMENT OF FUNGI BY INTERFERING WITH THE BIOSYNTHESIS OF STEROLS IN CELL MEMBRANES

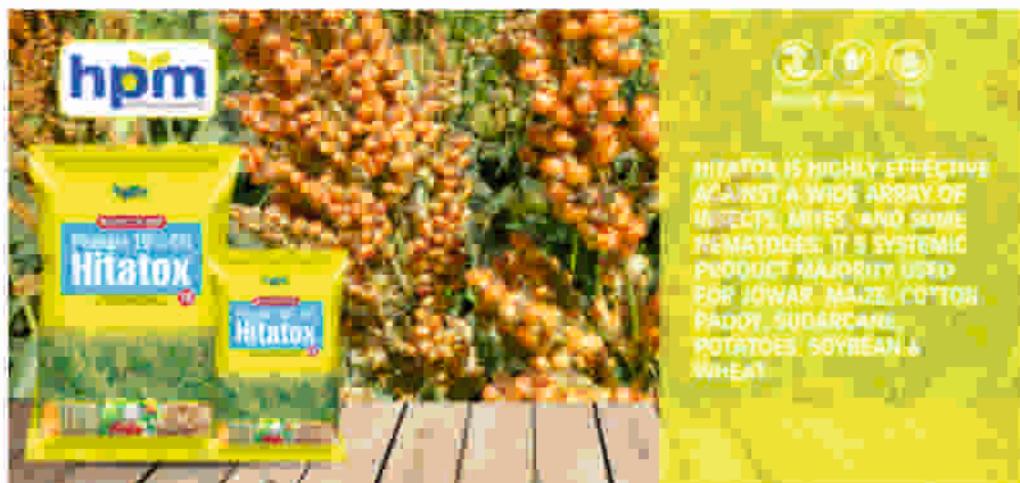
India is the home to a variety of fruits produced in the world. A large variety of tropical, sub tropical and temperate fruits are grown in the different parts of the country. India is today the second largest producer of fruits in the world next to China with a production of 81285 thousand metric tonnes of fruits from an area of 6982 thousand hectares , which comprised of about 30 percent of the horticultural crops produced in India and 12.6 percent of the fruits produced in the world . Apple is one of the most widely grown fruit all over the world. China, United States of America, Turkey, Poland, and India are the leading producers of apple in the world. It is commercially the most important temperate fruit and is the fourth produced in the world after banana, orange and grape. About 80 million tons of apples are grown worldwide . Apple is an important fruit crop grown in India today. Although the indigenous variety of apples was grown in India for centuries. As Apple production continues to grow, diseases are also increasing in it. There are various fungi that attack on the apple.

Apple Scab : The most troublesome disease for apple growers is apple scab. Scab is caused by a fungus that infects both leaves and fruit. Scabby fruit are often unfit for eating, and continued infection of leaves weakens the tree. Scab infections on leaves start as olive green to brown spots with an irregular or feathered edge. As leaf infections grow, they may merge together and assume a dark brown velvety appearance. Severely infected leaves may turn yellow and drop prematurely. Scab infections on young fruit start out as olive green to brown spots. As the lesions enlarge, they hurtle, and eventually become black, corky, inedible areas on the fruit. Severely infected fruit may be deformed and often crack open. Apple, we all know, is the most important fruit crop. As apple cultivation is growing, problem like apple scab, are increasing as well. Considering this growing problems of apple scab, India's leading company HPM is creating new products to eliminate this problem. HPM is always ready to help the farmers with the complete range of agrochemicals. HPM's improved and better fungicide has considerably raised apple cultivation. To beat the issue of apple scab company's fungicide like DIFENCONAZOLE 25% EC are the viable approaches that battle fungus and spare the yield for agriculturist. SAYER, is a product that acts as a shield for Apple.

SAYER is a systemic fungicide with preventive and curative action. Absorbed by the leaves, with acropetal and strong translaminar translocation. It is taken up by the plant and acts on the fungal pathogen during penetration and hyphal formation. It stops the development of fungi by interfering with the biosynthesis of sterols in cell membranes. Although the mode of action permits protective and curative use, it is recommended to apply the product early enough to avoid irreversible crop damage and build-up of the disease.

Some talking point about SAYER:

Excellent tolerance in a wide variety of crops gives more security. Outstanding curative efficacy gives more flexibility. Long-lasting disease control means fewer applications. Broad spectrum of activity also controls many secondary diseases. All this means saving time and money with higher yields of better quality. Thorough coverage is essential for effective results. Don't apply more than 6 applications of this product per season. The effect of Sayer could be diminished if rain falls within 2 hours of application.



Jowar is the third important food crop of the country after rice and wheat both in terms of area and production. Among the different kinds of cereal crops in India, jowar occupies a major prominent position being a staple diet for the poorer section of the society. It is also used for animal feed and industrial raw materials.

Onion is one of the most important commercial vegetable crop grown in India. It is cultivated in India for thousands of years. It is one of the oldest cultivated vegetables. It is used as salad or cooked in various ways. In all curries, fried, boiled or baked. It is also used in processed form e.g. flakes, powder, paste, crush and pickles. Onion has great therapeutic value. They are stimulant and mild counter-irritant. It has been used as a herbal remedy for centuries for colds, coughs, bronchitis and many other diseases. Now it is found beneficial in cardiovascular disease, diabetes and respiratory tract diseases, cancer etc.

HPM India & Beyond

Z-SAFETY ZINC FORTIFIED

It is a broad spectrum fungicide with protective action. It is used on variety of fruits, vegetables, cereals and pulses. It is known for providing highest zinc nutrition to the crop.

But these days onion production is getting reduced. The production and productivity of onion is becoming very low. The main reasons of low productivity is fungus. A variety of diseases and disorders affect onions and related crops in Ontario. Most of the diseases are caused by fungi or bacteria whereas disorders may be caused by adverse weather, air pollutants, soil conditions, nutritional imbalances and pest control products. Sometimes several diseases can be present at the same time. Two such diseases are Downy Mildew and Blight.

HPM's contribution : The nation's driving organization HPM is completing a lot of commendable work for the improvement of farmers organization by giving them the best quality insecticides, fungicides, herbicides and plant growth regulators. The association has an extent of things that obliges farmers to chose down better quality maize. HPM has lots of products to solve these problems. organisation has paid special attention on these issues and developed a package of products for increasing onion production which included varieties. One such product of the company is Z-Safety. It is a broad spectrum fungicide with protective action. It is used on variety of fruits, vegetables, cereals and pulses. It is known for providing highest Zinc nutrition to the crop. Broad-spectrum fungicide, which controls large no. of diseases with its multi-site action. Z-Safety sprays results in dark green colored healthy leaves & ultimately increase yield. Z-Safety is safe to foliage, blossoms and fruits of many plants. It is a liquid tank mix partner with systemic fungicides which prevent the chances of resistance development against them. For better disease management, it is always advisable to remember the maxim — PREVENTION IS ALWAYS BETTER THAN CURE. Generally the sprays of Z-safety should start before the appearance of disease or at disease initiation. The use of "Z-Safety" will end the problems of Downy mildew and Blight. It is one such fungicide which is compatible with other agrochemicals.

Mango is the most important commercially grown fruit crop of the country. It is called the King of fruits. India has the richest collection of mango cultivars. India ranks first among world's mango producing countries accounting for about 50% of the world's mango production. The fruit is very popular with the masses due to its wide range of adaptability, high nutritional value, richness in variety, delicious taste and excellent flavor. Mangoes account for approximately half of all tropical fruit produced worldwide. India is the largest mango producer accounting for about half of the global mango production. Indian Mangoes are known for their taste and aroma throughout the world. Mango is commercially cultivated in Andhra Pradesh, West Bengal, Karnataka, Kerala, Bihar, Uttar Pradesh, Uttara Khand, Punjab and Haryana, Maharashtra and Gujarat. Mango cultivated over an area of 2009 thousand hectares with an annual production of 12760 thousand metric tonnes. India produces quality mangoes. Alphonso is highly liked by the western countries.

hpm

HI-IMIDA

HI-IMIDA is a foliar spray for the control of sucking and other insects in different crops. Imidacloprid has a broad spectrum of activity, particularly against sucking insects, various species of beetles, some species of flies and leaf miners. There fields of use are termite and locust control. Its outstanding biological efficacy, especially its excellent root-systemic properties, its broad spectrum of activity, good long lasting effect – combined with low application rates and good plant compatibility, has made the product the first choice of the farmer. It can be applied to plants as a spray or stem paint or as a basal stem spray/drench. It can also be injected into plants or applied as a soil treatment use. The part of active ingredient taken up by the plant is further distributed in an acropetal direction.

As we read about the importance of mango, India's driving organization HPM is Creating new products to increase mango cultivation. HPM in the past numerous years had been an avenue for the creation of agro chemicals. We have had such a large number of products that have been set apart with tag of "World's best in class". Presently HPM is attempting to give high yielding varieties of agrochemicals to the agriculturists. These enhanced and better agrochemicals have impressively raised their homestead deliver.

Unique modern and sure shot insecticide based on Imidacloprid a chlornicotinyl Insecticide(CNI). HI-IMIDA is a multiple usage Insecticide used to control harmful pests of mango. It is used as foliar spray for the control of sucking and other insects in different crops. Imidacloprid has a broad spectrum of activity, particularly against sucking insects, various species of beetles, some species of flies and leaf miners. There fields of use are termite and locust control. Its outstanding biological efficacy, especially its excellent root-systemic properties, its broad spectrum of activity, good long lasting effect – combined with low application rates and good plant compatibility, has made the product the first choice of the farmer. It can be applied to plants as a spray or stem paint or as a basal stem spray/drench. It can also be injected into plants or applied as a soil treatment use. The part of active ingredient taken up by the plant is further distributed in an acropetal direction.

hpm

SEAGATE

QUICK KNOCKDOWN EFFECT AGAINST NYMPHS AND ADULTS MAINLY BY CONTACT ACTION. Moulting and oviposition inhibitory action on nymphs.

Chilli is raised over an area of 2020 thousand hectares in the world. India is the world leader in chilli production. Chilli are the fruits of Capsicum pepper plants, rated for their hot flavor. They are members of the nightshade family, related to bell peppers and tomatoes, and most belong to a species known scientifically as *Capsicum annuum*. There are many varieties of chilli, such as cayenne and jalapeno. Chillis are excellent source of Vitamin, A, B, C and E with minerals like molybdenum, manganese, folate, potassium, thiamin, and copper. Chilli contains seven times more Vitamin C than orange. Ever since its introduction to India at 1498, chillies have been included in Ayurvedic medicine and used as tonic to ward off many diseases. Chilles are good for slimming down as it burns the calorie easily. Chilles stimulate the appetite, help to clear the lungs and stimulate digestive system.

Chilli is one of the important commercial crops grown in India. However, the crop is highly susceptible to various insects. As chilli cultivation is growing, problems are increasing as well. Considering these growing problems of chilli cultivation, India's leading company HPM is Creating new products to alleviate these problems. HPM in the past many years had been an avenue for the production of agro chemicals. We have had so many products that have been marked with tag of "World's best in class". Now HPM is trying to provide high yielding varieties of agrochemicals to the farmers. These improved and better agrochemicals have considerably raised their farm produce. HPM's Seagate is a very effective insecticide. It controls red spider mite, yellow mite, purple mite, pink mite, eriophyid mite. It has quick knockdown effect against nymphs and adults, mainly by contact action. Moulting and oviposition inhibitory action on nymphs. Seagate disrupts the energy generation process of mitochondrial electron transport complex.

HPM Chemicals & Fertilizers Ltd., one of the fundamental agrochemical suppliers in the country, plans to help agriculturists encountering crop hurts as a result of appalling atmosphere or creepy crawlies and nuisances. The organization has a scope of items that oblige agriculturists hunting down better quality make . Don 3G (Carbofuran 3G) is a noticeable bug spray that put a conclusion to creepy crawlies and stops them.

Jute is known as 'Golden Fibre'. It is not only valuable for economy, but also for environment. The opportunities from producing jute can have a huge positive impact on the environment. The environmental threats from producing jute can be overcome and thus turned into opportunities. Investing in Jute Industry can be one of the major steps towards green investment.



The onion is one of the most important commercial vegetable crops grown in India. The demand for onion is worldwide. It is used both in raw and mature bulb stage as vegetable and spices.

Onion is an important fresh vegetable consumed all over the world. India ranks first in acreage in the world covering about 480 thousand ha (21 per cent of the world area) and second in production after China, with over 15 million tons . It is a standout amongst the most devoured vegetables all through the globe and in light of which, is it likewise a standout amongst the most and broadly developed commercial vegetable and spice crop everywhere throughout the globe. Onions have extraordinary market request everywhere throughout the world, particularly in the global market. It can be used as vegetables in the immature stage as well as also in the mature stage, after the complete formation of the bulb.

There are plenty of health benefits of eating onions because of their high nutrition values. Onions are a very good source of vitamin C, B6, biotin, chromium, calcium and dietary fibre. In addition, they contain a good amount of folic acid and vitamin B1 and K. Onions contain a large amount of sulphur and are especially good for the liver. As a sulphurous food, they mix best with proteins, as they stimulate the action of the amino acids to the brain and nervous system. Onions contain a significant amount of quercetin which is very powerful antioxidant in prevention and reduction of cancer to spread more.

Onions can be cultivated over a wider range of agroclimatic conditions and weather. Generally, this cool season vegetable crop is cultivated in the winter and is harvested completely, before the summer starts. However, a mild season with low temp is best suitable for commercial cultivation of onion. However, it requires a good temp ranging from 15 °C to 25° C during the vegetative growth and 16 °C to 20° C during the bulb formation, along with 28 °C to 33 °C at the time of harvesting. Onion farming can be done over a wide variety of soil including sandy loam soils to clayed loam soils with the facility of good drainage. However, red loam soils to black soils, sandy loam soils, with good organic content are considered as the best substrate for onion farming for optimum production. It also requires deep friable soil having soil pH ranging from 5.5 to 7.0 for better production.

The country's leading company HPM is doing a lot of commendable work. For the betterment of farmers company is providing them the best quality insecticides, fungicides, herbicides and plant growth regulators. The organization has a scope of items that oblige ranchers hunting down better quality make . X-Pert (Emamectin Benzoate 5% SG) is a prominent Insecticide that put a conclusion to insects and stops their attack on crop.

X-Pert a product of HPM India is a Emamectin Benzoate 5% SG formula and is known as a Non Systemic insecticide X-Pert protect plants from feeding damage within few hours of application. It controls range of larval instars by contact activity. It is a rapidly absorbed into foliage and has translaminar action. Immediate paralysis on ingestion It is a natural derived product that does not harm the beneficial insects. Rainfast & reliable, full protection of foliage, increased residual It protects plants from feeding damage within few hours of application Extra advantage of this Insecticide is that it enhances the outward appearance of fruiting body making them brighter and more advantageous looking. It has a great Phytotoxic Effect on crops. It is a product that providing proper protection to plants.

Numerous species of planthoppers are found in agriculture, and many of them have a broad host list (for example, the potato leafhopper, Empoasca fabiae, has over 100 host plants). They feed on foliage and shoots of many different plant species by piercing the plant cells and sucking out the contents. The damage that results from feeding depends on the host plant and the specific hopper. Only a few species of hoppers transmit pathogens such as those that cause curly top virus and aster yellows. Adult hoppers are excellent short-distance jumpers when disturbed, and they can be pests when found in high numbers.

Planthoppers look a lot like Leafhoppers, but they have fewer leg spines and more interesting heads. Their bodies are shaped like wedges or half-circles. They are bright green and resemble leaves, even down to the 'veins'. They are agile jumpers and leap from plant to plant to feed on them. They also quickly hop away from perceived danger. Adults feed on the juices of plants. A tropical species from the same family was thought to glow in the dark and were hence called Lanternflies, but none of these insects are luminescent. The name stuck despite the fact.



HPM has such huge numbers of products which provide the complete protection from planthoppers. For the advancement of ranchers organization is giving them the best quality insecticides, fungicides, herbicides and plant growth regulators. HPM have products like 7-Star, Hitatox, Hindol, Hi-Imida and Gajini. These products have unique chemical properties, which result in excellent control of many species of planthoppers. Use of these products paralyse the pest, which remain immobile on the crop until death in about 3-4 days. These products are economical to use as single application provides effective pest control.

Spices constitute an important group of agricultural commodities which were used for flavoring and are the main ingredients for any tasty food. People have used these plants since earliest times. No other commodity has played more pivotal role in development of modern civilization as spices. The trade in spices is one of the oldest and at one time one of the most important forms of commerce. Like the trade of silver, gold and slaves, spice trade connected many different civilizations and helped the growth of global contact. The demand for spices was the key in expanding world trade from expanding world. Spices have tremendous importance in the way we live, as ingredients in food, alcoholic beverages, medicine, perfumery, cosmetics, colouring and also as garden plants. Spices are used in foods to give flavour, pungency and colour; Along with other spices, Cumin is extensively used for culinary and medicinal purposes and as condiments; It add color, flavor and zing to food, besides helping digestion. It is also used in medicinal plants.

The nation's driving organization HPM is completing a great deal of commendable work. For the improvement of ranchers organization is giving them the best quality insecticides, fungicides, herbicides and plant development controllers. The association has an extent of things that oblige farmers chasing down better quality make. HPM India has reliably stayed between the potential damages and collects, while saving the plant business to an amazing yield. We are continually on edge to propose splendid courses of action that can be consolidated with the use of characteristic items and extra the harvests. Recipe arrangements and organics can just exist together, if they are used precisely where the need is. Our items, if used as a piece of endorsed estimations, have wound up being the best responses for after hurt and other ordinary harms. We are turning out with more ecologically ensured and all around arranged agro chemicals continually.



Spices play an important role in making a dish more flavours. Indian cuisine is especially known to have some of the healthiest traditional dishes as its main ingredient. Cumin is one such spice that forms an integral part of Indian dishes in the Indian cuisine.

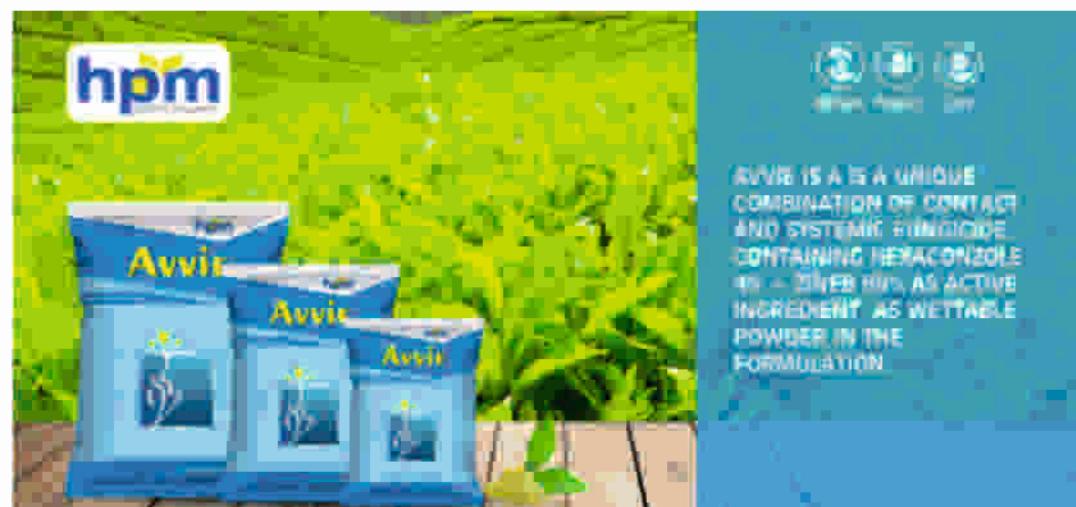


Herbicides play a vital role in integrated weed management programs. It is a chemical substance used to control or manipulate undesirable vegetation, especially weeds.

Nowadays, it is to a great degree hard to have gainful cultivating without the utilization to protect crops from pests, illnesses and the weeds particularly for the farmers that are working on an extensive scale. The chemicals used to control weeds are known as herbicides. They are made to kill weeds by directly scorching them or by disrupting their biological functions such as respiration and photosynthesis—eventually killing them. Weeds are depicted as any plants that develop in the garden against the desire of the rancher. It must be borne as a main priority that the agriculturist needs to purchase the herbicide, which is a cost that could be a lessening of benefits.

HPM has pre-emergence contact herbicides, absorbed rapidly by the foliage (especially the shoots) than by the roots with very little translocation; they control annual broad leaved weeds and grasses, they have residual activity and controls important weeds in direct sown, puddled or transplanted crop. HPM is one of the main agrochemical providers company in the nation. The company has a range of products that oblige farmers searching for better quality crops. HPM's has prominent herbicides that put a conclusion to weeds and stops their regrowth.

Imagine life without tea will put most Indians into sleepy morning inertia. For us, it's the answer to a frenzied day at work, morning woes and even heartbreak. Don't we kill all sorts of social awkwardness with a warm comforting cup in our hands for company? India is the second largest producer of tea in the world after China, including the famous Assam tea and Darjeeling tea. Today, India is one of the largest tea producers in the world, although over 70 percent of its tea is consumed within India itself. In this, India is also among the top 5 per-capita tea consumers. A number of renowned teas, such as Assam and Darjeeling, also grow exclusively in India. The Indian tea industry has grown to own many global tea brands and has evolved into one of the most technologically equipped tea industries in the world.



AVVIE IS A UNIQUE COMBINATION OF CONTACT AND SYSTEMIC FUNGICIDE, CONTAINING HEXACONazole 4% + Zineb 68% AS ACTIVE INGREDIENT AS WETTABLE POWDER IN THE FORMULATION

The tea industry has an important and special place in the Indian economy. Tea is the country's primary beverage, with almost 85% of total households in the country consuming tea. India is the world's largest producer and consumer of tea, accounting for 27% of the world tea production in 2003. India's expenditure on beverages and processed foods accounts for 8% of food expenditure in rural areas, and 15% in urban areas. India is also an important tea exporter, with around 12-13% of world tea exports. Further, certain varieties of tea are grown only in India and are in great demand across the world. Darjeeling tea possesses the brightness of flavour and fine colouring that set them apart from all other teas.

Black Rot, **Grey blight** and **Blister Blight** are the harmful diseases of tea. The first indication of Blister blight disease is a small, pale-green, pale-yellow, or pinkish, translucent spot on the tea leaf which is readily seen against the darker green colour when the leaf is held against the light. The disease also affects the tender and young green stems. On the stem a pale yellow spot appears; this gradually elongates and encircles the whole stem which becomes slightly swollen at this point. When the spores are ripe the patch on the stem turns grey. This fungus penetrates the tender stem and consequently the leaves and buds above the diseased part wither and necrotize. Finally the stem bends over and breaks off at the affected spot.

The country's leading company hpm India is doing a lot of commendable work. For the betterment of farmers company is providing them the best quality insecticides, fungicides, herbicides and plant growth regulators. The company has brought a new product to make agriculture better, which is a fungicide. The company's product AVVIE is becoming very popular among farmers. It is a contact and systemic fungicide that raises multifunctional nutrients in all seasons. Avvie is a unique combination of Contact and systemic fungicide, containing Hexaconazole 4% + Zineb 68% as active ingredient, as Wettable Powder in the formulation. Hexaconazole is a systemic fungicide with protective and curative action. Zineb is a broad spectrum fungicide with protective action. Avvie gives excellent control of many fungi, particularly Ascomycetes and Basidiomycetes. Avvie is best for control of Alternaria diseases and soil borne fungi especially Rhizoctonia, Helminthosporium oryzae, Pyricularia oryzae.



Spices for the longest time have been used to make food more palatable if not interesting. There are many countries in the world that grow and rear the herbs for the sole purpose of trade and distribution. The merchants of spices were among the most popular traders in the ancient times. India is well known for spices with a wide variety and common recipes that are spice based. Spices come with a number of benefits other than making great dishes at the end of the day. India is the prominent producer of a wide range of spices, oils and oleoresins from spices of various grades. Spices and spice derivatives are also expanding their applications to industries such as pharmaceuticals, medicine, beverages, food processing and personal hygiene products. Indian cuisine, it's colorful, flavorful, and the spices are not only tasty—they come with a plethora of health benefits. These spices can be used in either sweet or savory dishes and they will leave your taste buds asking for more. The contribution of Indian spices to health benefits has been well chronicled since Vedic times.

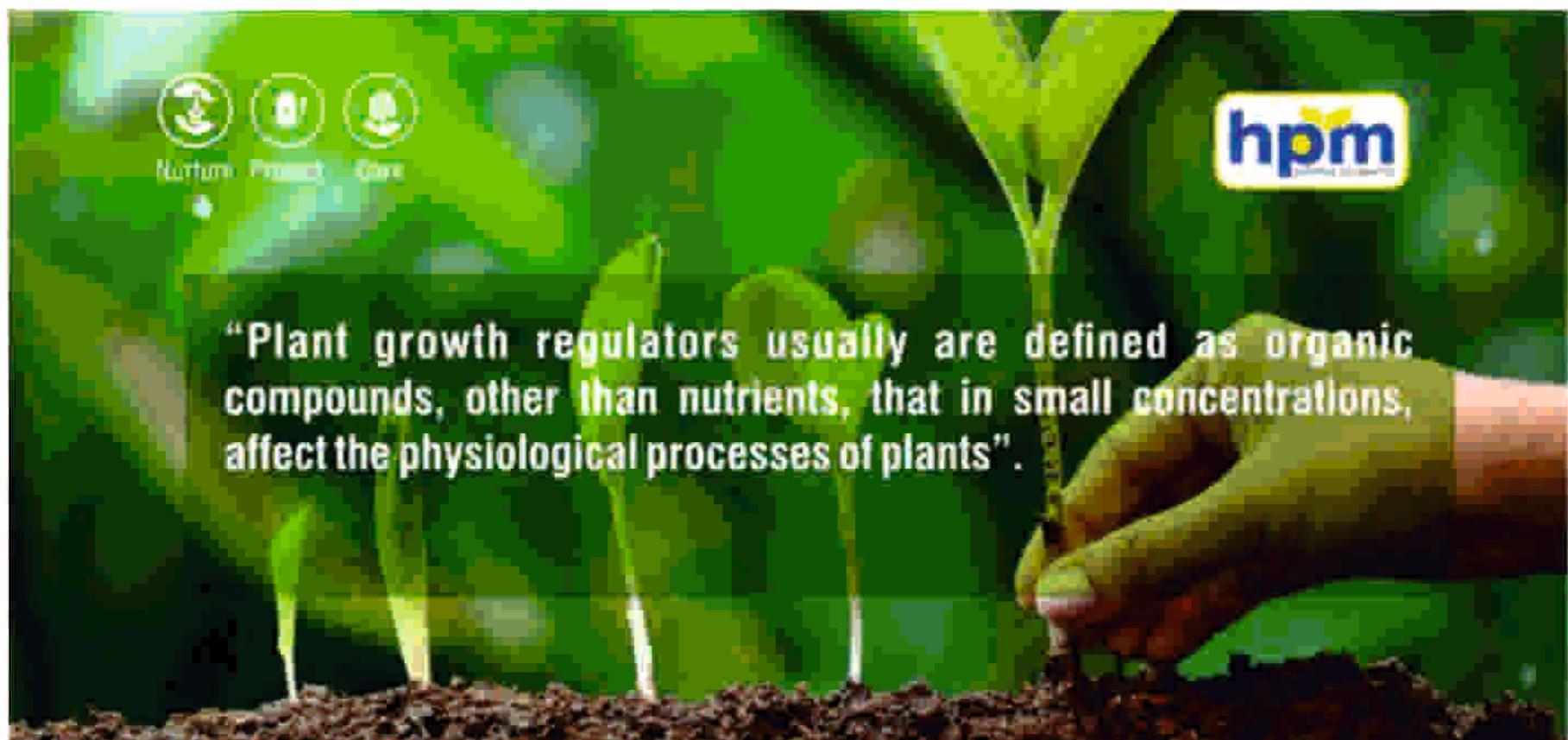
To beat testing issue, utilization of insecticides is advanced by agribusiness crusader HPM Chemicals and Fertilizers Pvt. Ltd. Insecticides like Difenthionuron 50% WP are the viable apparatuses that battle pesting and spare the yield for agriculturists. HPM Chemicals and Fertilizers Pvt. Ltd. are one of the main Difenthionuron 50% WP insecticide makers in India and they offer it by the exchange name of Rise .

Rise act as acaricides in the vegetable and spices segment. Water Soluble pouches with in pack for ease of application. Difenthionuron 50% WP is a broad Spectrum insecticide, controls nymph & adults & give longer lasting control. It paralyses the pest, which remain immobile on the crop until death in about 3-4 days.

Today, HPM has emerged as a front runner in the production of agrochemicals . HPM has always tried to harmonize farmers with new products. For the betterment of farmers company is providing them the best quality fungicides, herbicides , insecticides and plant growth regulators. From time to time the company produces the products as per the requirement of the farmers and their crop. HPM offers an array of agrochemicals that protect your spice crop from different insects and diseases. With effective products on shelf and ongoing literacy drives to educate the farmers on the use of fertilizers and crop maintenance, HPM is propelling Indian agriculture to greater heights.

India is a farming nation with around 140 million hectares of land under development. More than 65-70% of country's population lives in rural regions where dominant part of individuals are here a place with cultivating groups. In our nation agriculturists are utilizing pesticides to build their creation. The explanation for the less creation isn't known to them, they are very little mindfull about the plant development controllers and their part in plant development. Plant Growth Regulators (PGR) is one of the classes of agrochemicals. These are natural mixes, other than supplements, that adjust plant physiological procedures. PGRs, called biostimulants or bioinhibitors, act inside plant cells to fortify or hinder particular compounds or chemical frameworks and help manage plant digestion. They ordinarily are dynamic at low focuses. The significance of PGRs was first perceived in the 1930s.

Since that time, chemosterile and manufactured items that modify capacity, shape, and size of produce plants have been found. Today, particular PGRs are utilized to change trim development rate and development design amid the different phases of advancement, from germination through reprod and post-collect conservation. Classes and uses of Growth Regulators. HPM India is currently planning distinctive assortments of PGRs to coordinate different requirements of farmers and agriculturists. PGRs manufactured by HPM India are especially those that are used to encourage rooting, and are organic compounds. But most of those used in commercial agriculture are synthetically derived but are absolutely harmless if used in regulated quantities.



HPM India is effectively associated with education drives with regards to spreading awareness about enhanced and better farming practices. We offer outright counsel and workshops to agriculturists on how and when to utilize PGRs.

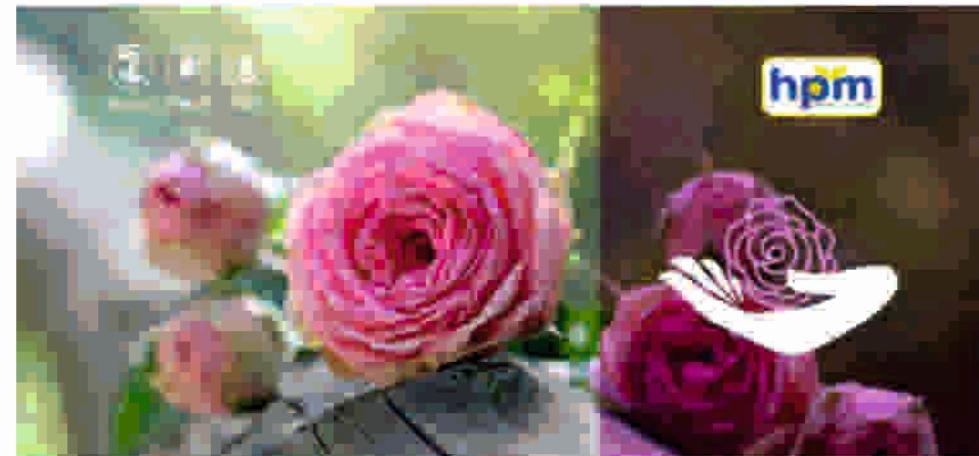
Agriculture is one of the most important components of our society. Farmers and ranchers produce the food and fiber we use every day. Soil is a critical part of successful agriculture and is the original source of the nutrients that we use to grow crops. We all know that soil is a key element of agriculture. Without it we wouldn't be able to grow plants, which are used as food for both humans and animals. In the end, we benefit from healthy soil. The healthiest soils produce the healthiest and most abundant food supplies.



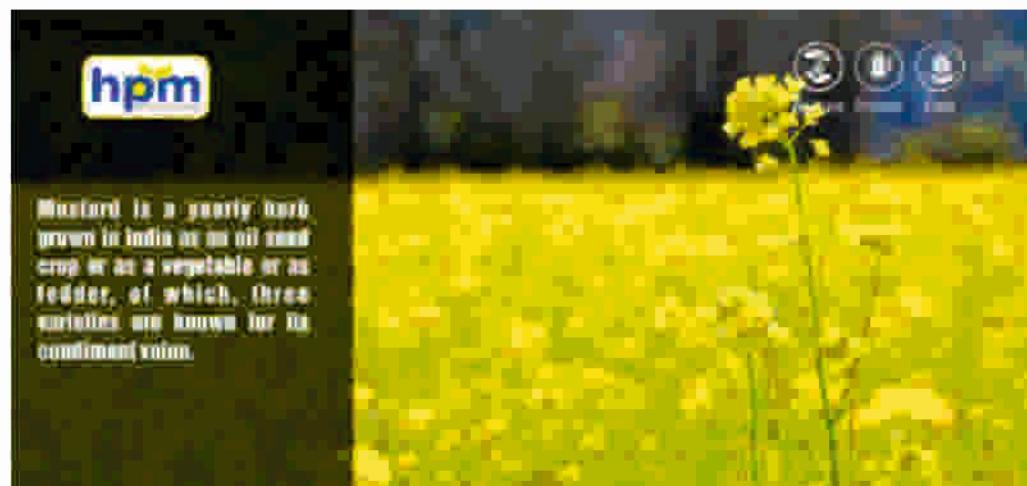
Soil is a vital part of our environment. It allows plants to grow, holds and cleans water, recycles nutrients and provides a home for a multitude of organisms on Earth. Without soil, we wouldn't be able to grow any crops – with the exception of hydroponics – and in turn, have any food on our tables. When soil is protected, it helps plants create more nutrients our bodies need, like protein. The billions of microbes living in healthy soil produce amino acids, which plants convert to protein. Soil sustains life. Soil contains many nutrients needed by all plants to grow. Healthy soil aids in the cleanliness of the environment—decreasing erosion and air pollution.

On our planet we have 12 different soil types known as orders. Each one of them needs a different treatment and HPM provides many soil treatment and technologies, including precise applications of fertilizer and irrigation, to ensure that soil is conserved for sustainable food production. Because healthy soil results in a more stable food supply, which results in a strong community.

Flowers play a cardinal role in human behaviour and culture, bringing tranquillity and peace of mind. Flowers have been associated with mankind since time immemorial, as they have been used for religious offerings and social ceremonies. Especially, the rose is one of the oldest flowers under cultivation and most popular of all garden flowers throughout the world. Rose is a main cut blossom become monetarily everywhere throughout the world. It positions first in worldwide cut blossom exchange. This blossom has an overall utilization of more than 40 billion . The rose has not just specified its position as the "Ruler of blossoms" yet additionally as the world's most loved bloom. The heavy demand for rose cut flowers in the European markets is mainly from November to March due to the shortage of local production because of severe winter. Fortunately, this is the most congenial condition for successful production of most of the flowers, including roses in India. There are several varieties of the Indian Roses which includes white rose, pink rose, maroon rose, red rose, yellow rose and orange rose. It has thorn on its stems. The cane has leaves and budeyes. A leaf consists of stipule, petiole, and leaflets. The leaves are -15 cm long. The leaflets usually have the serrated margin and few small prickles on the underside Rose plant of the stem. Most of the roses are deciduous. The flower has five petals.



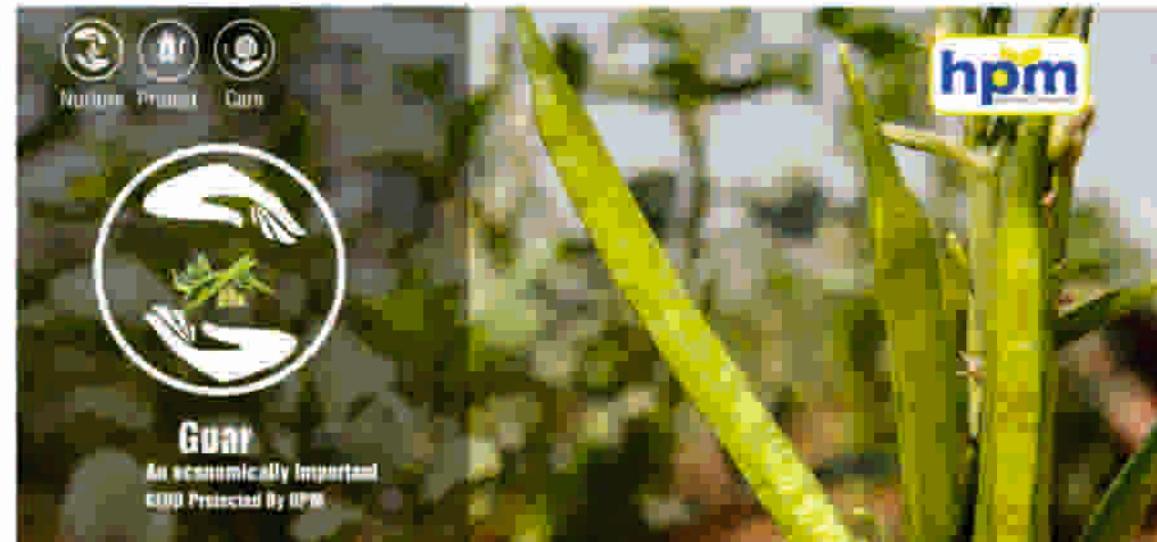
The nation's driving organization HPM India is completing a great deal of excellent work. For the improvement of agriculturists and their harvest organization is giving them the best quality bug sprays, fungicides, herbicides and plant growth regulators . HPM guarantees that agriculturists overall approach great yields that outcome in more advantageous salaries. As solid salary makes an interpretation of in to great sustenance security, we help ensure nourishment security of farmers themselves. The company has brought new products to make rose cultivation better. HPM improves rose cultivation reasonability through begin to-end trim arrangements.



Mustard prominently utilized as a part of Indian cooking. India is number one underway of mustard. Mustard gives consumable oil which is utilized as cooking in India. Mustard seed is utilized as fixing in the readiness of vegetable and curries in India. Split mustard seed and oil is utilized for pickling. The methi leaves of the youthful plants are utilized as vegetable. It can be utilized as oil cake to bolster cows. Rajasthan, Gujarat, Uttar-Pradesh, West Bengal, Haryana, Madhya Pradesh and Assam are real mustard seeds delivering states in India.

Mustard leaf miner is the most serious insect-pest of mustard and responsible for causing the yield losses ranging from 35.4 to 96 per cent depending upon weather condition. HPM Chemicals & Fertilizers Ltd., one of the principle agrochemical suppliers in the country, plans to help agriculturists encountering crop hurts due to frightful atmosphere or creepy crawlies and irritations. The organization has a scope of products that oblige agriculturists scanning for better mustard production. All products are environmentally-safe chemicals designed to protect from harmful insects, fungi and weeds that harm your crop.

Cluster bean is an annual legume crop and one of the famous vegetables, popularly known as "Guar". In India, Cluster bean is cultivated for its green vegetables and dry pods, & as a forage crop and also cultivated for Green manure because guar planting increase subsequent crop yields, as this legume crop conserves soil nutrients. It is grown in all parts of India. In the world major production comes from India only. Pakistan also produces good quantity guar seed. In India Rajasthan, Haryana, Punjab and Gujarat are the major producing state. Punjab also contributes good production. The very famous guar gum used in mining, petroleum drilling & textile manufacturing, is obtained from the endosperm of the guar seed.



HPM Chemicals & Fertilizers Ltd., one of the principle agrochemical suppliers in the country, plans to help agriculturists encountering crop hurts due to frightful atmosphere or creepy crawlies and irritations. The organization has a scope of items that oblige agriculturists scanning for better quality production.

Insecticides : Z star, Hinthara, X-pert and Acetox are used after 60 days of sowing these products are highly effective and economical against a wide range of insect pests.

Fungicides : Battista, Staff & Bond are used after 90 days of sowing these products effective against many diseases complexed on large number of crops.

Herbicides : Chetaly, Gadar and Gadar max are used after 30 days of sowing these products are selective pre-emergent & pre plant incorporation Herbicide. These are used to control most annual grasses and some broad-leaved weeds.

Plant Growth Regulator : 24 Karat is used after 60 Days of sowing . It Improves the physiological efficiency of the crop by stimulating the hormonal and enzymatic activities and increases the yield and quantity of the crop produce.

Adjuvant :

Astra is used after 90 days of sowing . Astra is a unique new generation worldwide spray booster and activator which make the agrochemicals such as Insecticide, Fungicide, Herbicide, Plant Growth Regulator, Fertilizer and Micronutrient perform better.

Bajra is famously known as "pearl millet" and has a place with the group of Gramineae family. This grain is essentially started from India or Africa. Bajra is a coarse grain yield and thought to be the poor man's staple support and appropriate to develop in dry terrains. Major Bajra generation states in India are Rajasthan, Maharashtra, Haryana, Uttar Pradesh and Gujarat. Bajra can likewise be utilized as significant creature grain. It is one of the significant products of China, India, South Eastern Asia, Sudan, Pakistan, Arabia, Russia and Nigeria. In India top Bajra delivering state is Rajasthan trailed by Haryana, Maharashtra, Gujarat and Uttar Pradesh.



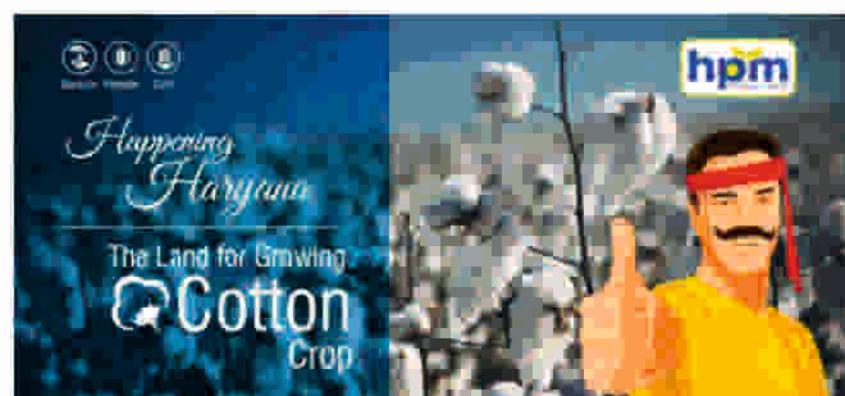
Even Bajra requires less nutrients, adding Farm Yard Manure (F.M.Y) or Compost result in better yield and quality of seed. Apply organic manures at the time of soil or land preparation so that soil will become fully decomposed by the time of sowing. Fertilizers should be applied in split doses. At the time of sowing, full phosphorus and potash and half of nitrogen should be added as basal application. 1/4 th nitrogen should be added after 30 and 60 days (after sowing).

HPM chemicals & fertilizers Ltd. Is adequately connected with instruction drives concerning spreading mindfulness about upgraded and better cultivating hoses. We systematically provide direction and workshops to agriculturists and farmers to how and when to use this product.



Agriculture has been the traditional and most significant occupation in Haryana society. Rice is one of the most important crops grown in the state. Going by 2011 reports, rice is grown in about 18 of the state 21 districts. Rice is grown in 18 districts of Haryana. Out of which seven districts are in high productivity group, that is, yield more than 2,500 kg/ha. Triennium average area of these seven districts was 5.15 lakh hectares, which was 48% of triennium average area (10.73 lakh hectares) under rice in the State. Triennium average production was 14.19 lakh tonnes, which was 55.2% of triennium average production (25.68 lakh tonnes) of rice in the State. Triennium average productivity of high productivity group comprising of seven districts was 2,755 kg/ha as against 2,393 kg/ha triennium average productivity of the State. The state has about 1 million ha under rice cultivation, which is mostly irrigated. The state average productivity is about 3.1 tonnes/ha.

Haryana the fertile land for agriculture is basically a best state for growing India's most desired Cotton crop, its not only a basic crop but also the most beneficial for Indian Economy. Around 70% of inhabitants are occupied with agribusiness. Haryana is at Second position in nourishment grain generation in the country. Wheat and rice are the significant products. Haryana is independent in sustenance creation and the second biggest supporter of India's focal pool of nourishment grains. The fundamental harvests of Haryana are Wheat, Rice, Sugarcane, Cotton, Oilseeds, Guar, Corn, Bajra and so on. There are two principle kinds of products in Haryana: Rabi and Kharif. Haryana contributed fundamentally to the Green Revolution in India in the 1970s that made the nation independent in sustenance generation. Around 86% of the region is arable, and of that 96% is developed. Around 75% of the territory is inundated, through tube wells and a broad arrangement of trenches. Various waterways have been uncovered and directs put to ensure that the rancher doesn't pack up and leave in the midst of dry season. As of now in Haryana, the most critical innovation for groundwater water system is the utilization of tube wells with a submersible pump.



We have to agree that agriculture land is not as plentiful as it was earlier and to ensure the sustainability of the industries and importantly the global food supply, sustainable agriculture practices have to be at the forefront. In India research and development initiatives have been catered through HPM Chemical & Fertilizers Ltd., that represent farmers, lived in research and development to improve the sustainable agricultural practices. HPM Chemical & Fertilizers Ltd.

HUNTER GR IS A SELECTIVE PRE-EMERGENCE HERBICIDE. IT IS USED TO CONTROL WEEDS OF PADDY.

Rice is a cereal grain belongs to the grass family of Gramineae and native to the delta of the great Asian rivers, the Ganges, the Chang (Yangtze), and the Tigris and Euphrates. The rice plant grows from 2 to 6 ft tall, with a round, jointed stem, long pointed leaves and edible seeds borne in dense head on separate stalks. Rice is one of the most cultivated grain crops in India as well as in Asian countries and a staple diet of major part of India. India is an important centre for rice cultivation and consumption. India stands in second position after China in the production of rice. Methods of growing rice differ greatly in different regions, but in most Asian countries including India, the traditional hand methods of cultivating and harvesting rice are still practiced. Modern farming of rice started in most of the countries which drastically reduced the labour problems and cost of cultivation.

A herbicide is a chemical substance used to control or manipulate undesirable vegetation, especially weeds. Herbicides are extensively used in gardening, farming, and landscape turf management. Herbicides are classified into two categories: selective and non-selective. Selective herbicides kill specific unwanted plants while leaving desirable vegetation relatively unharmed. Non-selective herbicides kill all or most plant species.

HPM Chemicals & Fertilizers Ltd. is one of the main agrochemical providers in the nation, plans to help agriculturists experiencing crop harms because of terrible climate or insects and pests. The company has a range of products that oblige farmers searching for better quality create . HUNTER GR (Butachlor 5% GR) is a prominent herbicide that put a conclusion to weeds and stops their regrowth. It is a selective pre-emergence herbicide. It is used to control weeds of paddy. It controls *Cyperus difformis*, *Cyperus iria*, *Echinochloa crusgalli*, *Echinochloa colonum*, *Eleusine indica*, *Eclipta alba*, *Fimbristylis miliacea*, *Ludwigia purviflora*, *Sphenoclea zeylanica*.

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NIDAR

Systemic Fungicide
Faster absorption
Protects plant surface
Reduces disease incidence
Extends shelf life
Extends storage period
Extends shelf life
Extends storage period
Extends shelf life
Extends storage period

It is a systemic fungicide with protective and curative action. Its absorption into plant is very fast and provides long duration control. It disrupts the ergosterol biosynthesis pathway, which is vital to fungal cell wall formation. Read label after application of 2 hours of spray. It is having lowest waiting period among other powdery mildewicide. NIDAR when used as Prophylactic or preventive application does not allow the pathogen to get infected and establish in the plant. It highly effective fungicide against Blister Scale and Powdery Mildew.

Each good thing has an awful face as well, so is the situation with fungicides. They have a huge utilize yet a few damages as well... yet that is unavoidable yet HPM Chemicals & Fertilizers Ltd. furnishes you the fungicides with most noteworthy subset of good finished product remembering the utilization approach.

In India, it is one of the most common, popular and pithed vegetable crops grown throughout the country except higher altitudes. It is a versatile crop adopted to different agro-climatic regions and can be grown throughout the year. It is a perennial but grown commercially as an annual crop. A number of cultivars are grown in India, consumer preference being dependent upon fruit colour, size and shape. India is second largest producer of Brinjal after China. In India major brinjal growing states are West Bengal, Orissa, Karnataka, Bihar, Maharashtra, Uttar Pradesh, and Andhra Pradesh. Due to its hardness, it can be successfully grown in dry areas with low irrigation facilities. It is moderate source of Vitamins and minerals. It can grow throughout the year.

DON-3G IS A BROAD SPECTRUM CARBAMATE INSECTICIDE, NEMATOCIDE AND MITICIDE HAVING SYSTEMIC ACTION. IT IS USED AGAINST A VARIETY OF INSECT PESTS, NEMATODES AND MITES DAMAGING VARIOUS CROPS.

HPM Chemicals & fertilizers Ltd., one of the main agrochemical providers in the nation, plans to help agriculturists experiencing crop harms because of terrible climate or insects and pests. The company has a range of products that assist farmers searching for better quality create . DON-3G (Carbofuran 3G) is a prominent insecticide that put a conclusion to insects and stops them.

DON-3G is a broad spectrum carbamate insecticide, nematicide and miticide having systemic action. It is used against a variety of insect, pest, nematodes and mites damaging various crops. It is very effective against leaf roller, shoot and stem borer, aphid, jassid, thrips, gall midge. It is also effective on hoppers in potato, cotton, sugarcane, maize, millet, brinjal and other vegetables.

The onion is one of the most important commercial vegetable crops grown in India. The demand for onion is worldwide. It is used both in raw and mature bulb stage as vegetable and spices. It onion also known as the bulb onion or common onion is the most widely cultivated and consumed vegetables across the globe. Onion is one of the most important commercial vegetable crops grown in Asia. The demand for this vegetable is very high worldwide. Onion can be used as vegetable in both immature stage (spring onion or green onion) and mature bulb stage as vegetable and spices. Young plants may be harvested before bulbing occurs and used whole as spring onions or scallion. The pungency in onion is due to a volatile oil known as allyl-propyl-disulfide. Onion has excellent health benefits and nutrition values. The commercial cultivation of onion is very much successful in Asia region. Onions can be grown in containers, pots, greenhouses and even in back yards. Farmers can get decent profits with onion farming, if the follow good farm management practices. China is the top producer of onions in the world followed by India.

Tomato is one of the most important vegetables worldwide. Tomato is one of the most important "productive food" because of its unique nutritive value. It is one of the most versatile vegetables with administered usage in India culinary tradition. As it is a relatively short duration crop and gives a high yield, it is economically attractive, and the area under cultivation is increasing daily.

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Sugarcane is one of the major cash crops of India. From its fibres, sugar, ghee, alcohol etc. are manufactured. After the extraction of the juice the fibrous material left behind is used for making paper and sound insulating board. In villages it is also used as fuel. India has the largest area under sugarcane cultivation in the world and it is the world's second largest producer of sugarcane next only to Brazil. The cane production registered a dramatic increase of 93 per cent in the decade 1951-61 to a result of diversification of agriculture but this went plateaued to 14.9 per cent growth between 1968-69 and 1970-71 mainly as a result of the former's withdrawal of Kisan credit scheme owing to internal market fluctuation. Sugarcane accounts for the largest value of production and holds an enviable position among all the commercial crops in India. Obviously, it is the first choice of the farmers, whatever environmental conditions favour its growth. HPM Chemicals & Fertilizers Ltd. offers a variety of products to battle creepy crawlies and mites. HITATOX (Iprodione 10% EC) is a must have to protect your crops.



Hitatox is highly effective against a wide array of insects, mites, and some nematodes. It's systemic product majority used to make cotton, paddy, sugarcane, potatoes, soybean & wheat. It can be incorporated into the soil by in furrow or drilling application. It gives knockdown and longer duration of pest control. It is readily translocated through roots to the plant system. It also kills insects by contact and fumigant action. It is economical to use as single application provides effective pest control.



HPM Chemicals And Fertilizers Ltd. is one such agricultural company helping farmers worldwide for providing the best solutions for better farming. We are also the Ethephon 37% SL manufacturers in India. The company also involved in supply and export of Ethephon 37% SL worldwide. We are offering many plant growth regulators that can improve the physiological efficiency of the crop, enhance traits and quality of fruits, promote seed germination power leading to breaking of seed dormancy and increase stem length in flowers grown for export. HIGROW (Ethephon 37% SL) is a prominent Plant growth regulator that enlarges the fruit size.

This is used for inducing flowering, Enlarging fruit size, breaking the seed coat of the crop and inducing the ripening of the fruits of Tomato, Pineapple, Tomato, Coffee, Rubber. This is a PGR with effective Hormone actions and enhances ethylene synthesis. Ethrel is a plant hormone for inducing flowering. It is used for inducing ripening. It enlarges the fruit size, it increases the yield of the crop.

mites, mafusca, play an important role in agricultural production. The role may be a negative one, so far as production is concerned, in that several species infest crops and agricultural produce, and may bring about serious deformation and economic losses. Some of the mites are known to be vectors of certain virus diseases of plants. On the other hand, there are certain species which act as parasites and predators of injurious insects and mites, and which indirectly help to prevent losses that might otherwise be caused by different insect and mite pests of crops.

No crop is free from the attack of one or more species of plant feeding mites. However, several of these mites may often be innocuous and cause no damage to their host plants. A species which was previously of no economic importance may, under favourable conditions, assume a pest status on its host crop. Insecticides are not lacking where species which were previously unknown pests have developed into pests and have done considerable damage to the crops concerned. In the following few pages only those species that are known to crop or pest commonly on different crops are included.



HPM Chemicals & Fertilizers Ltd has dependably remained between the potential users and farmers, while spurring the horticultural business to an enhanced yield. We consistently strive to procure different arrangements that can be incorporated with the utilization of natural products and make the horticultural formula organic and organic can simply make ingenuity in the areas that they are utilized successfully where the need is. Our product, MiteKill is a form of prescribed insecticides have ended up being the best controls for adult horn and other normal damages. MiteKill is a true miticide (Acaricidal) of sulfite ester group, which gives effective control of mites through contact and fumigant action. It is registered in 72 countries for the control of 30 species of mites. It is very effective against those mites which gained resistance against other miticides. It has innovative protection to stops because feeding activity of mites occurs immediately after its application & it is suitable for integrated Pest Management.

Cadar Max Is Selective pre-emergent & post plant incorporation herbicide. It is used to control most annual grasses and some broad-leaved weeds it is recommended for use in soybean, Cotton, Corn, It is based on advanced capsule technology in which, it is focused in micro capsules and absorbed through both the leaves and root of target plants. It is based on advanced technology by which this chemical doesn't evaporate at increased temperature. Capsule locked Cadar Max reside in soil, hence provide dose to the former between rainy and irrigation. It affects on cell and disrupt cell division of the time of weed seed germination. It controls E. colletioides, Commelinaceae spp., Dicotyledoneae, Dactyloctenium aegyptium, Agropyron repens, Euphorbia heterocarpha etc. It doesn't show any harmful effect on crops and soil. The residual effect due to vehicle it doesn't affect adversely on subsequent crops. It is recommended to use Cadar Max at 600-700 ml per acre.



Vegetable cultivation is the major constituent of the business plan of Indian Farmers. Vegetables like tomato, potato, cabbages and eggplant are all important components of Indian diet. India's diverse climate ensures availability of all varieties of vegetables. It ranks second in vegetable production in the world, after China. However there are several insects and diseases that limit the productivity of the crop and affect the profit. Many of them cause huge damage to vegetables. If they are not well controlled or monitored, they can severely reduce the quality or even kill the whole crop. There are several insects that attack vegetables.

CYPERHIT-10 Is a systemic, contact and stomach insecticide, controls Boll-worms, borers, and Diamond Black Moth etc of various crops at a Non Systemic contact and stomach way. It is a concentrate formulation based on Cypermethrin Technical 10% w/w EC. It controls Boll-worm, borer, and Diamond Black Moth etc of various crops like, Cotton, Wheat, millets, sugarcane, Vegetables, coffee, maize, Pulses etc.



Every good thing has a bad face too. So is the case with Insecticides. They have a myriad use but some harms too, but that is inevitable but HPM provides you the Insecticides with greatest balance of good over harm keeping in mind the utilitarian approach.

hpm
Leading Growers

hpm Batista
Systemic Fungicide
Concentration 30% M

Nature. People. Care.

BATISTA IS A BROAD SPECTRUM SYSTEMIC FUNGICIDE WITH PROTECTIVE AND CURATIVE ACTION IT IS ABSORBED THROUGH THE ROOTS AND GREEN TISSUES WITH TRANSLOCATION ACROPOETALLY (UPWARD) TO PLANT PARTS

Diseases are a noteworthy wallpaper of yield and plant health that can be caused by various plant pathogens living beings. Growth is the main source of yield misfortune around the world. Insects, nematodes, Furthermore, microscopic organisms additionally cause infections in plants. Infections ruling other those caused by pathogens can be caused by a biotic from living bodies, for example, supplement translocency and PH constraint, and furthermore critters, crawlers. Growth can cause genuine harm in agriculture, bringing about high misfortune of yield, quality, and benefit.

A fungicide is a particular sort of pesticide that controls parasites delivered by particularly assaulting or disintegrating the organisms causing the infection. Fungicides prevent and cure disease, which can have severe effects on crop yields and quality. The main methods are soil and seedbeds, cereals and rice. Plant diseases are caused by a great variety of pathogens. They can be used to control fungi that damage plants, including rust, mildew and blight. They might also be used to control mold and mildew in other settings. Fungicides work in a variety of ways, but most of them damage fungal cell membranes or interfere with energy production within fungal cells. These are used as a formulated product consisting of an active ingredient plus inert ingredients that improve the performance of the product. Fungicides are typically mixed with water then applied by spraying. Application equipment ranges from small hand-held and back-pack sprayers to large sprays with trailed or aircraft. A few fungicides are applied as dusts. Fungicides can also be applied in greenhouses or under mist, fog or spray. Coverage of all parts of the plant susceptible to the disease is critical because very few fungicides can move adequately throughout a plant.

Weeds are one of the major threats to India's natural environment. Major weed invasions change the natural diversity and balance of ecological communities. These changes affected the survival of many plants and animals because the weeds compete with native plants for space, nutrients and sunlight.

The types of weed control measures:

Weeds diminish harvested and hereditary efficiency, they attack crops, cover pastures and as does any type domesticated animals. They seriously harm water, supplements and soil flora, bringing about reduced product yield and poor harvest quality.





Farming is a challenging occupation, but it is one that has built the backbone of our country. Over time, the methods of agriculture are changing. Farmers are using new technologies to improve agriculture, but the farming methods have changed. By the way, the pesticides used by the farmers have become difficult to reuse them later. HPM India prepares new new products from time to time, insecticides, fungicides, herbicides and Plant Growth Regulators , produced by the company provide complete protection from sowing to harvesting, the most serious issue for farmers in the present time is fungi.

Phoenix belongs to triazole group of fungicides. It is a broad-spectrum foliar systemic fungicide. It is protectant, curative and eradicant fungicide with strong anti-sporulant action. This is a systemic fungicide contributes to good distribution of the active ingredient within the plant tissue and prevents it from being washed off it translocates ectopically in the xylem. It is effective in controlling deadly diseases like rust, blight, blights and leaf rots infecting many crops. It has long duration of control.



The country's leading company HPM India is doing a lot of commendable work. For the betterment of farmer company is providing them the best quality insecticides, fungicides, herbicides and plant growth regulators. The company has brought new product to make agriculture better.

HPM GOLD is unique product containing microbes as Vesicular-Arbuscular Mycorrhiza (VAM) and has broad spectrum action in granular form. It contains granular spores and other propagules of VAM mycorrhizal fungi in a granular carrier and has broad spectrum fertilizer activity. Due to high solubility in water, it is absorbed rapidly through plant and roots, resulting maximum supply of compost and micro-nutrients to the crop. HPM Gold improves the root growth with excellent root density, resulting greater by volume yellowing in crop. It helps in greater utilization of nutrients and provides plant protection from disease causing organism to the root and also makes plant resistant plant. Its mycelial threads penetrate toward tips the root, thereby increasing the surface area for absorption and translocation of essential plant nutrients including phosphorus, Nitrogen, Sulphur, Calcium, Zinc and copper.



Hexxit is an unique highly systemic triazole fungicide. It acts as protective, curative and eradicant with strong anti-sporulant and translaminar action. It is a broad-spectrum fungicide controlling wide range of diseases infecting many crops and vines. It gives excellent control of Ascomycetes, Basidiomycetes and Deuteromycetes. Broad-spectrum fungicide, which also controls soil borne fungi like Fusarium, Sclerotium and Rhizoctonia, very effectively. Hexxit is highly effective against shoot blight of potato, leaf spot and blights on all types of crops and powdery mildew of crops like grapes, chillies etc. It is effective at lower dosages for long period. Apply immediately when first symptoms of disease are noticed, repeat after at an interval of 14 days if infection is severe or after 21 days in case of moderate infection.

Grape is an important commercial fruit crop of south India. Grapes growing here been regarded as most remunerative enterprise. Mainly it grown for making wine and preparation of halal and dried as a table fresh fruits. While in India, it is mainly grown for table use. Generally grapes are eaten fresh as table fruits. As it contains glucose as major sugars it is easily digestible. Grapes are good source of calcium, potassium, Iron and vitamins. The total soluble solids in different cultivars may range from 10 to 20 percent and acidity 1 to 4 percent. Fresh grapes are laxative in nature. Wine can be prepared from grape juice. Berries are used to increase health.



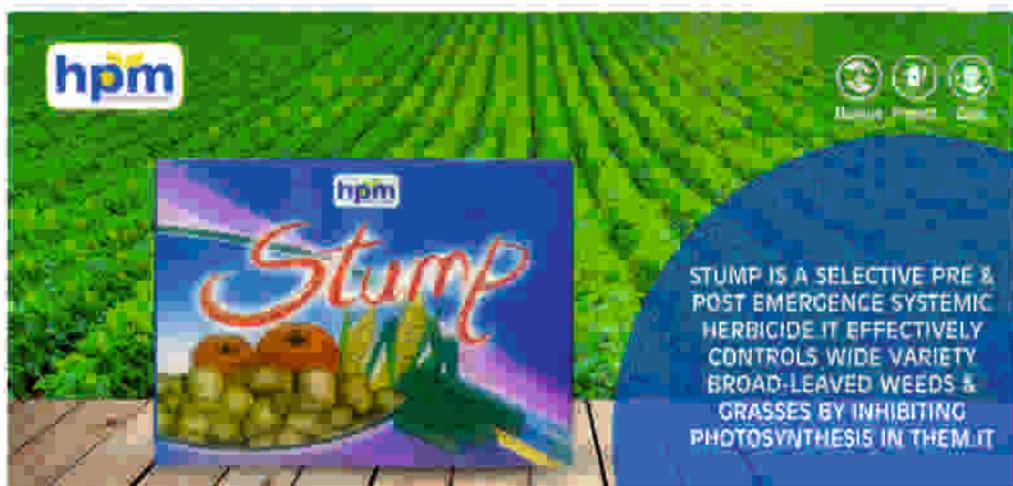
HERO NO.1 HAS UNIQUE CHEMICAL PROPERTIES WHICH RESULT IN EXCELLENT CONTROL OF COTTON BOLLWORM. IT HAS LONG SYSTEMIC EFFECT I.E IMMEDIATELY AFTER SPRAY IT IS ABSORBED BY THE PLANTS AND THUS GIVE LONGER PROTECTION TO THE SPRAYED CROP.

As the human population continues to grow, more and more crops are needed to meet this growing demand. This has increased the use of insecticides to increase crop yield per acre. Insecticides are agents of chemical or biological origin that control insects. Control may result from killing the insect or otherwise preventing it from engaging in behaviour deemed destructive. Insecticides may be natural or man-made and are applied to target pests in a myriad of formulations and delivery systems (sprays, baits, slow-release diffusion, etc.). The science of biotechnology has, in recent years, even incorporated bacterial genes coding for insecticidal proteins into various crop plants that can benefit to unsuspecting pests that feed on them.

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It is also known as pink bollworm. Cotton bollworm is a problem to growing cotton. Cotton bollworm moths are about 0.75 inch long, with a wing span of 1 to 1.2 inches. Eggs are irregularly flattened, with 10 to 16 prominent rows of toothed ridges. Newly hatched, third-instar larvae have several rows of dark tubercles along the body, each bearing one or two bristles. Larvae range from olive green to dark reddish brown in colour and can be best distinguished from most other caterpillars except the leafworm by the tiny scales, visible under a hand lens, that cover most of the body surface. Bollworm larvae must be in fourth the third instar in order to be distinguishable.

Potato is one of the most important commercial crops that is cultivated widely because of its great demand in the market, throughout the whole year. Because of plentiful benefits of potatoes, there is great demand for potato products in both local and international market. Nowadays, with the help of good potato farming techniques and cultivation practices, it is able to obtain more than 40 tonnes of potato yield per hectare. Potato has become a staple food in many parts of the world and an integral part of much of the world's food supply. It is the world's fourth-largest food crop, following maize, wheat, and rice. The green leaves and green skins of tubers exposed to the light are toxic. In 2014, world production of potatoes was 382 million tonnes, an increase of 4% over 2013 amounts and led by China with 25% of the world total. Other major producers were India, Russia, Ukraine and the United States.



STUMP IS A SELECTIVE PRE & POST EMERGENCE SYSTEMIC HERBICIDE IT EFFECTIVELY CONTROLS WIDE VARIETY BROAD-LEAVED WEEDS & GRASSES BY INHIBITING PHOTOSYNTHESIS IN THEM.

Stump is a selective pre & post emergence systemic herbicide. It effectively controls wide variety broad-leaved weeds & grasses by inhibiting photosynthesis in them. It is absorbed predominantly by roots & leaves and translocates proportionally in the xylem sap used before germination, remains well distributed and retains sufficient all molasses (5 to 10%).

Moreover, some imperative natural impacts are related with the utilization of herbicides. These incorporate unanticipated harm happening both on the sprayed site, and offsite. But we at HPM India embrace that when we utilize equations capably and inside the rules of administrative speculations, they have negligible effect on environment and soil. In fact they demonstrate gainful, while helping the farmers meet the domestic and farm needs.

A growth regulator, plant growth regulator, or PGR, is a natural or synthetic chemical that is applied to a seed or plant in order to alter its characteristics. They are sometimes referred to as plant hormones. Growers can add PGRs to their crops in order to address a desirable goal, resulting from increasing insect and disease resistance to increasing root strength. Some PGRs also are used in water conditions.

Water conditioners change the chemical structure of the hard water. The forces disassociate the minerals into a new form. It first changes molecular structure of the minerals' picks to a pure form, so the calcium, iron and other minerals stay in the water but never form hard scale at walls of piping, fixtures and appliances. These all silent minerals are very much important for crop and human. The water coming from water conditioners move for every layer of soil or rock on the ground, these all minerals are more easily absorbed into the ground and the crops, which gives both a healthy environment to grow crops and increases the yield.



GLORY contains a unique pH indication system which changes the color of the water from Colorless to Green at pH 6 to PURPLE at pH 4.5 which is the optimum pH for many agrochemicals, pesticides & fertilizers. It contains Special natural penetrators which improves the transportation of pesticides into plant. It is a unique water conditioner with Ph indicator & spreader for agriculture applications. It is suitable for foliar applications.



Fungicides are usually used to control bacterial and fungal diseases of fruit, vegetable, nut and field crops. Some of the diseases that are controlled by using fungicides are smut, leaf

spots, blights and apple scabs. Fungicides give the last line of defense in the armory of an integrated disease management (IDM) approach. They do not directly yield, but protect an inherent yield potential that the grower may realize in the absence of disease. In the field, making effective disease control from fungicide application is dependent upon the disease pressure and the effectiveness of the fungicide to control that disease. Globally, the same fungicide active ingredients are used against a wider range of fungal pathogens.

A fungicide is a substance often chemical, that is used to kill fungi, fungal spores and fungal infections. There are both natural fungicides and synthetic fungicides available. In general, commercial fungicides, which are usually synthetic are commonly used in horticulture in order to kill fungal pathogens that have infected plants. Fungal pathogens are the No. 1 cause of crop loss around the world and can cause serious damage in agriculture, reducing the yields of yield, quality, and profit in both crops and animals.

RECENT (Tebuconazole 2% DS) controls seed born diseases in Wheat. It is used for commercial application and on-farm treatment with conventional seed-treating equipment. Recent being effective at very low dose is very economical. The active ingredient in recent is used only where it is needed i.e. on the seed grain thus lowering the toxicity burden on the environment. It is highly effective against loose smut and flag smut of wheat. It can also be mixed with other seed treatment products. Any small quantity of seed can be readily treated by mixing the proper amount of Recent 2 DS and mix in a closed container. Roll the seed until each grain is uniformly coated with the fungicide.



CLODINO SUPER IS A NEW GENERATION WHEAT HERBICIDE. IT IS SPECIALLY DEVELOPED FOR THE CONTROL OF PHALARIS MINOR & WILD OATS IN WHEAT CROP.



Clodino Super is a new generation wheat herbicide. It is specially developed for the control of Phalaris minor & wild oats in Wheat crop. Recommended for post emergence application, the herbicide is taken up through leaves of grass weeds. Active growth of susceptible grasses ceases within 48 hours. Clodino Super quickly degrades in the soil & has little or no soil activity. Hence no cropping restrictions. Best results are obtained, when the majority of grass weeds have emerged and are actively growing e.g. under warm, moist conditions. Do not apply if rainfall is expected within 2 hours.

Moreover, some imperative natural impacts are related with the utilization of herbicides. These incorporate unintended harm happening both on the splashed site, and offsite. But we at HPM India embrace that when we utilize equations capably and inside the rules of administrative specialists, they leave negligible effect on environment and soil. In fact they demonstrate gainful, while helping the farmers meet the domestic and fare needs.

All insecticides is a substances used to kill insects. They include ovicides and larvicides used against insect eggs and larvae, respectively. Insecticides are used in agriculture, medicine, industry and by consumers. Insecticides are believed to be a major factor behind the increase in the 20th century's agricultural productivity. Nearly all insecticides have the potential to significantly affect non-target organisms, including some concentrate along the food chain. Insecticides can be classified into two types: synthetic insecticides, which have natural or long-term toxicity and contact insecticides, which have no residual activity.

HI-IMIDA: Its unique chemical properties, which result in excellent control of many sucking and chewing pest. It provides excellent control against insects such as Anthonomus, Cotton bollworm, and Cutworm etc. It also effectively controls Thrips and Whiteflies in wide range of crops like Cotton, Tomato and eggplants. It has long systemic effects immediately after spray it's absorbed by the plant and giving longer protection to the sprayed crop.

Wheat is one of the most important food-grain of India and is the staple food of millions of Indians, particularly in the northern and north-western parts of the country. It is rich in proteins, vitamins and carbohydrates and provides balanced food. India is the fourth largest producer of wheat in the world after Russia, the USA and China and accounts for 8.7 per cent of the world's total production of wheat. Wheat is grown on 13 per cent of the cropped area of India. Wheat production is mostly confined to North-Western part of the country.



UNIQUE MODERN AND SURE SHOT INSECTICIDE BASED ON MIDAFLORPHYL-A CHLORODIVINYL INSECTICIDE(HI-IMIDA) IS A MULTIPLE USAGE INSECTICIDE USED TO CONTROL INSECT PESTS OF COTTON, TOMATO, SUGARCANE AND VEGETABLES.

Sulphur have a wealth of health benefits, including the ability to improve the metabolism. It is a natural grain sulphur in a healthy way, protect heart health, defend against cancer, reduce the effects of dementia, improve digestive health, promote bone health, protect against skin diseases, increase circulation, decrease the risk of diabetes, and remove toxins up the body. HIVET Sulphur 80% WG is a multi-site contact inorganic fungicide. Sulphur is a non-systemic organic and inorganic fungicide with secondary acaricidal activity. It is a dust free, flowable micronised sulphur granules, ease of measuring & handling. It is a dust free, flowable micronised sulphur granules, ease of measuring & handling. It has instant dispersion and high water-solubility in water, therefore it won't cause scorching. It has strong action on fungi, mould, microorganism, bacteria and viruses. It has optimum action for longer effectiveness in maintaining the appropriate pH of the soil, thereby better intake of other nutrients. It is a better crop stand. It controls metabolic & growth processes within plant cells by modulating the legume thio-lyase/hydrogen fixation.



HIVET ISULPHUR 80% WG IS A MULTI-SITE CONTACT INORGANIC FUNGICIDE. SULPHUR IS A NON-SYSTEMIC CONTACT AND PROTECTANT FUNGICIDE WITH SECONDARY ACARICIDAL ACTIVITY. IT IS A DUST FREE, FLOWABLE MICRONISED SULPHUR GRANULES. EASE OF MEASURING & HANDLING.

India is a rural nation, the greater part of India's population relies upon horticulture; farming has a unique commitment in the advancement of India. Over the most recent decade of development, it has been seen that the level of cultivating has enhanced impressively, around 18% of the nation's GDP and the 10% of the aggregate tones are committed in Agriculture as it were. More than 60% of the land mass of India is arable which includes rice, wheat, cotton, millets, jowar, cotton, sugarcane, potato and tomato and so forth. But in order to reach the target produce every farmer has to face a deluge of problems a portion of which is due to natural factors, weeds being one of them.

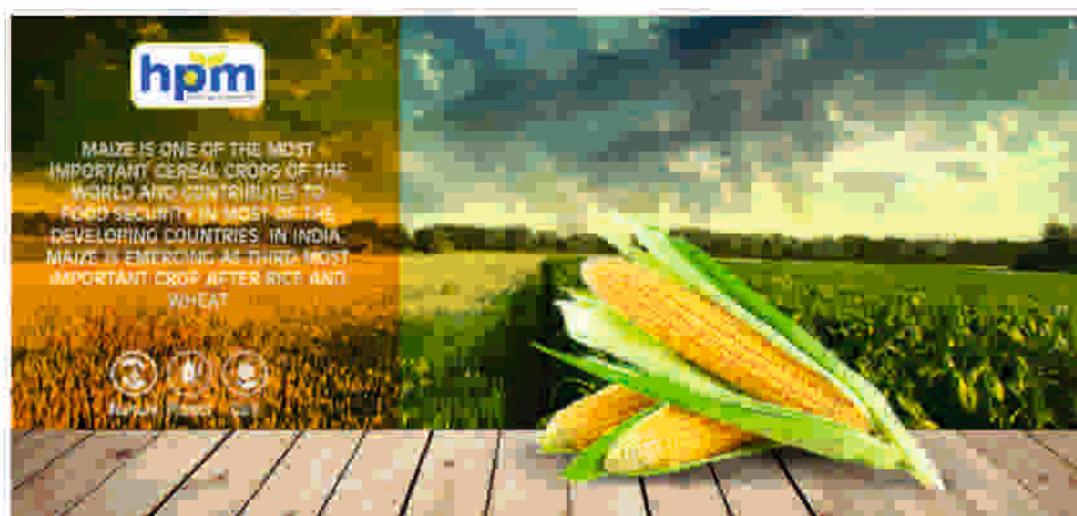


WAADA is a selective, pre emergence, contact herbicide, absorbed rapidly by the foliage (especially the shoots) than by the roots with very little translocation. It Controls annual broad leaved weeds and grasses. It has residual activity and controls important weeds in direct sown, puddled or transplanted rice.

HMP India, one of the main agrochemical providers in the nation, plans to help agriculturists experiencing crop harms because of terrible climate or insects and pests. The company has a range of products that oblige farmers searching for better quality create . **WAADA** (Oxyfluorfen 23.5 %EC) is a prominent herbicide that put a conclusion to weeds and stops their regrowth.



Fungicides are broadest chemical compounds or biological organisms used to kill fungi or fungal spores. A fungicide inhibits their growth. Fungi can cause serious damage in agriculture, resulting in critical loss of yield, quality and profit. Fungicides are used both in agriculture and to fight fungal infections in animals. Chemicals used to control mycotoxins, which are not fungi, are also referred to as fungicides, as they use the same mechanisms as fungi to infect plants. **HIPASOL** (Flutriafolome 5% SC) is a broad-spectrum fungicide. It is protective, curative and eradicant in action. It is strong curative and translaminar action. It is quickly absorbed & translocates within the host and system. It gives excellent control of Ascomycetes, Basidiomycetes and Oomycetes.



Maize is one of the most important cereal crops of the world and contributes to food security in most of the developing countries. In India, maize is emerging as third most important crop after rice and wheat. Its importance lies in the fact that it is not only used for human food and animal feed but at the same time it is also widely used for GM biotech industry, corn oil production, baby corn etc. Corn production has nearly doubled from around 12.0 million tons in the early 2000s to around 22 million tons today. This remarkable production growth has been largely driven by adoption of Maize stress hybrids in the late 1980's and continuous demand in domestic and export market. The increasing use of maize as feed, increasing share of the consumers in nutritionally enriched products and high demand for maize seed are the core driving factors behind emerging importance of maize crop.

Today, India ranks second worldwide in farm output. The economic contribution of agriculture to India's GDP is steadily declining with the country's broad-based economic growth. Agriculture is demographically the broadest economic sector and plays a significant role in the overall socio-economic fabric of India. One must remember that not all place development contributes directly to future plant development. The capacity of some to back off the development as well, basically to keep youthful plants transplanted. For simpler transportation and transplantation for longer periods, this capacity is especially critical for humans and domestic agriculture with pitch challenges to agriculture. They need to guarantee less demanding transportation, as well as need to help themselves to out other plants that are not sufficiently tangled or buried, and along and thin destroyed.

POWER - X-GRAVELS is one such natural bio-supplements based formula which is advantageous plant growth regulator and upgrades the qualities of the plants, bringing about a superior outcome. Farmers can add POWER - X-GRAVELS to their crops to achieve desired height and growth, and also increased yield and disease resistance. Better seedling establishment is also one of the benefits of POWER - X-GRAVELS. There are a couple of essential traits that you must know about POWER - X-GRAVELS. It has 100% Nutrients & no fillers. It is an organic material containing Protein Hydrolysates, Carbohydrates, Amino acids and Micro nutrients. It Made from unique specific plant extracts. It profuse growth of feeder root system enhancing nutrient uptake. It enhances root development, thus increasing absorption of minerals and nutrients. It Enhances soil microbial activity & plant chlorophyll content and better Seedling establishment. It enhances Enzymatic activity & cell growth and stimulates Protein synthesis induces hormones responsible for yield parameters such as Growth, flowering, fruit setting etc. Synergistic with fertilizers and other granular materials. It enhances organic matter to obtain enhanced fertilizer uptake.

The impact of weeds on agriculture varies from field to field. Infield, they compete with another crop and in some cases can harm plants. They aggressively compete for water, nutrients and sunlight resulting in reduced crop yield and poor crop quality. Weed control is essential in agriculture. Numerous methodologies have been used keeping in mind the end goal to control these plants. Strategic incorporation need development with them, sustainable development with different covering with mulch, directly herbicides with high residual contents, and chemical control with herbicides. All Clear is broad spectrum non-selective & contact herbicide containing 24% Paraquat dichloride. A.i which effectively controls broadleaved weeds & grasses. It is absorbed by foliage with some translocation in stems. An ideal herbicide for conservation and up-tilt systems [only targets the foliage parts of weeds] thus promoting lateral roots and preventing self-seeding.

Adjuvant are modified substances that make other agricultural boosting products more effective. These are fine supporters that are used to enhance the efficiency of herbicides, insecticides, fungicides and other agents that help in crop protection. Contains will support the greater spray used for crops become more potent and give great results. That is the reason, adjuvants are not themselves active for any particular action. They just modify some properties of the mix, so as to improve the ability of the solution to penetrate target & protect the target organism. Adjuvant are made of the ingredients such as surfactants, emulsifiers, oils and salts. Each of these ingredients is responsible to improve spray properties of spraying, penetration, droplet size or other characteristics.





HPM INDIA'S INSECTICIDE UNIT IS TO MAKE SURE THAT THERE IS A PROPER SUPPLY OF PRIMARY AND SECONDARY INSECTICIDES TO THE INDIAN CROPS IN APPROPRIATE QUANTITIES.

Indian economy primarily is based upon agriculture. It depends on agricultural production, the domestic market, the export volumes and like this the revenue generated. Country's overall GDP has a contribution of 25% from agricultural outputs. Owing to this, the industries associated with agriculture are coming up as prominent and promising units.

One of such industries is chemical insecticide industry, which today, is showing tremendous scope of growth. HPM India is the flag bearer of this growth and development of Indian agricultural industry and acting as a catalyst in this fast moving sector in terms of using the latest world class technology and manufacturing highly modern and sophisticated products. At HPM, we are adopting most advanced and innovative manufacturing processes to make Insecticide products which have the optimum capacity to supplement agriculture in all forms today. As India is ranked as the third largest exporter and producer of nitrogenous Insecticides, our endeavour lies in keeping it up-scale and on a high momentum.

The chemical Insecticide Industry of India gained momentum after India adopted the liberalization and globalization policy in 1991. This government aimed to reduce subsidies and attract new investments by decontrolling all the phosphorus and potassium fertilizers.

The Department of Insecticides is the nodal organization that is responsible for the planning, development, and promotion of the chemical Insecticide industry in India. The department also monitors the production, distribution, and imports of Insecticides. Besides, it is also responsible for management and provides financial assistance to the investors who are investing in the sector.

Without Insecticide producing units, it wouldn't be possible for the country to exhibit such unprecedented agricultural growth, boosted import ratios and towering revenues.

Insecticide wing of HPM India is one of the most energy-intensive segments of our plant, and we feel it is vital from the viewpoint of environmental discussions that we keep our future plans eco-friendly. Today, we are focusing to increase the productivity of Insecticides through implementation of pollution-free and environment-friendly technologies. This will definitely be helpful in achieving economic, social, and environmental development objectives.

The Indian Insecticide industry promises a great future for agriculture and for economy as well. India's demand for Insecticides is set to increase and so are the supplies. We will witness an accelerated growth in near future. This is also a great investment opportunity for foreign investors to invest in the Indian chemical Insecticide industry, optimize the Insecticide production through the use of modern technology, and gain valuable returns.

The future is bright and we are quite optimistic about Indian Agro-Chemical industry.



HPM RECOMMEND THAT TAGO SHOULD BE USED ON TOMATO CROPS PRIOR TO THE PLANT GETTING Affected BY THE DISEASES, IN THE SEEDING STAGES, TO SEE THE MAXIMUM AND BEST EFFECT OF THE FUNGICIDE.

In recent times, we saw tomato prices getting hiked like anything. There could be many reasons to this price shoot-up, but one of those could be lesser produce as per the rising demand of tomatoes.

Yes, when the produce is way below the expectation, the prices of the vegetable and fruit products are raised to meet the demand and supply circle. The reasons to lesser produce are many such as low weather conditions, affected fertility of land, not enough agriculture boosting components or the crops getting damaged by soil borne diseases and fungus.

TAGO, a product of HPM India is a Captan 7.5% WS formula and is known as a non-systemic fungicide with special protective and curative action. The WS formulation of TAGO stands for water dispersible fine powder, which means it can be used for dispersion in high concentration, allowing use as slurry. This is highly beneficial to crops. Also, TAGO is a seed treatment fungicide which acts at seedling stages and saves the crops from potential fungus harm. The crops that can benefit from TAGO are chilli, tomato, cabbages and tobacco, especially against the damping off disease. It is a proactive tool to control soil borne infection of fungal disease. Additional benefit of this fungicide is that it improves the outward appearance of fruiting body making them brighter and healthier-looking. It has an awesome Phytotoxic Effect on crops.

There are various government approved formulas for fungicides and HPM India manufactures products in adherence to laws and regulations imposed by government bodies. Our products work for greater benefit of agriculture and are in no manner harmful to crops, humans or environment. The list of approved fungicides for vegetable crops is quite small and in the case of tomatoes revolves around the use of a few "active" ingredients of one is mancozeb and the other is copper. Mancozeb is a potent product often used for leaf spotting diseases.

We recommend that TAGO should be used on tomato crops prior to the plant getting affected by the diseases, in the seeding stages, to see the maximum and best effect of the fungicide. The best season to apply TAGO to tomato crops is prior to rain, and then immediately after the rain, before the appearance of disease.

Going green is definitely a path coveted by many but the question remains; Is it all beneficial path for farmers and crops? Does it have no pitfalls at all when it comes to protecting crops and securing good yield? Well, the data shows that green revolution did not see a huge success in terms of solving damage and pest problems in crops. Hence, the farmers always have to resort to formula based solutions to save the crops from irreparable damages. One of such formula based solutions are insecticides. It is well understood that overuse of anything is a hazard, that is the reason regulatory bodies pose guidelines on usage of pesticides and other formulas on crops. Similarly, insecticides when used smartly and timely, bring hugely beneficial results to the farmers. The crops stay undamaged and are sold at good price, bringing greater profits. Insecticides are a great relief in fighting with crop damaging pests like chinch bugs, borers, aphids and caterpillars. These pests eat the crops and leave no sign of health and productivity in them. Insecticides, then become a crucial remedy to save the crops.



TYPHON AN ACETAMIPRID 4% + FIPRONIL 4% SC SOLUTION WHICH IS A POWERFUL INSECTICIDE AGAINST APHIDS, JASSIDS AND WHITEFLIES IN COTTON CROP.



In this quest, we bring to you TYPHON an Acetamiprid 4% + Fipronil 4% SC solution which is a powerful insecticide against Aphids, Jassids and Whiteflies in cotton crop. It has a dual mode of action and works on both nervous systems namely central nervous system and peripheral nervous system of insects, while making them lifeless and harmless. The killer effect of TYPHON is seen at all stages of growth in an insect, such as eggs, nymphs and adult stages. This unique ability to affect all stages of insect life-cycle helps in reducing pest population immediately after its application. Thus, TYPHON is the weapon that you need for your crops, immediately. It is one of its kind fighter that shields your crops from pests damage. Yes there exist many doubts about the potential harm posed to environment associated with the use of pesticides, but we at HPM India endorse that when we use formulas responsibly and within the guidelines of regulatory authorities, they leave minimal impact on environment and humans. In fact they prove beneficial, while helping the farmers meet the domestic and export needs.



HPM INDIA IS ACTIVELY FORMULATING DIFFERENT VARIETIES OF PGRS TO MATCH VARIOUS REQUIREMENTS OF FARMERS AND AGRICULTURISTS. ARPIT IS ONE SUCH NATURAL BASED FORMULA.



Modern agriculture has adopted various scientific innovations to get greater yields and fulfill the food requirements of the world. Contrary to older times, when needs were lesser as compared to today, yet, the crop yield amounted high, owing to natural fertility of the soil. Today, a lot needs to be invested to reverse the effects of global warming and to get good output.

Plant Growth Regulators or PGPs are an instrumental tool that help in getting better produce. They are natural or synthetic compositions that are sprayed or applied to seeds and plants to alter their characteristics. PGPs, thus, are also called plant hormones.

HPM India is actively involved in literacy drives when it comes to spreading awareness about improved and better agricultural practices. Our CSR initiatives are also reckoned with respect. We firmly believe that if used according to prescribed agricultural practices, plant growth regulators are not at all harmful to food crops and humans, but when applied against regulatory board's guidelines, they may cause problems with excessively fast growth, including external fruit ripening prior to interior ripening, and residual PGPs remaining in plants and fruits after application.

When we talk about crop destroying fungal attacks, we come to know that there are almost as many species of the mildew fungus as there are plants they can impact on. Most of these harmful fungal species are recognized as mildews. They focus their attack primarily upon young shoots which start showing the signs of wilting or appear shriveled even before the actual signs of the grey looking mildew become visible on the plant.

HPM India brought a new variety of fungicide for farmers and agriculturists, which is gaining identification as a great relief to fungus attacks and to save the crops, especially fruit and vegetable crops. As discussed, there are two commonly recognized varieties of mildew - 'powdery' and 'downy'. Both types can permanently cripple new shoots and leaves of plants of many vegetable varieties. Both the varieties appear very similar to look at but the major difference is that powdery mildews makes the plants look like as if they have been coated with white flour whereas Downey mildew tends to shrivel the leaves and it less visible to the eye.

Today, the global market of crop protection consists of a host of formulas being used for different crops, seeds, etc. also genetically modified crops. Crop protection products have dominated the agriculture in recent past, and are increasingly becoming the backbone of agricultural industry in India. Pesticides, fungicides, insecticides, plant growth regulators and fertilizers have added value to the crop production and facilitated a better yield all across the country.

HPM India is leading in this initiative and presenting an array of crop protection products with its ongoing innovations. The latest on the shelf being TAMMA, an Insecticide that promises to banish all crop eating insects and protect the crops from probable harm.



PREDICT
AN EFFECTIVE FORMULA DEVISED BY HPM INDIA TO DESTROY MILDews AND SAVE THE CROPS.



BENEFITS OF TAMMA ON CROPS

THE BENEFITS OF TAMMA ON CROPS INCLUDE INCREASED FOOD PRODUCTION, INCREASED PROFITS FOR FARMERS AND THE PREVENTION OF PLANT BORNE DISEASES.

There has been a long debate regarding the use of fungicides on crops to eliminate and prevent them from diseases. It is of great value to understand the need and use of fungicides so that they can be used properly, without causing any potent harm. Fungicides are used for the effective treatment of crop pests, to control their growth, to kill the existing ones, and to prevent the crops from getting destroyed by pests. These proprietary solution-based fungicides have a very important place in Indian agriculture.

The application and use of these fungicides must be in great supervision and in adherence to the regulations of agriculture advisory authorities. We at HPM India, bear this in mind while formulating new and better products to boost the agriculture practices in the nation and to help farmers get better yield. Our latest fungicide product composed of Propiconazole 13.9% + Difenoconazole signs of pest or disease are suspected. Take quick action and most plants will take 13.9% which is being sold by the trade name of Robocop, advantage of your intervention and restore themselves to full strength.



Out of capricious varieties of fertilizers such as chemical fertilizers, natural fertilizer and organic fertilizers, more and more farmers are shifting to the use of organic fertilizers. The benefits are apparent which we will discuss in this narrative. First, we need to understand why organic fertilizers are better than other alternatives. The organic fertilizer compounds are based on carbon, that directly help to increase the growth and productivity of plants. The composition is free of synthetic formations; hence, doesn't pose any side-effects to the crops too.

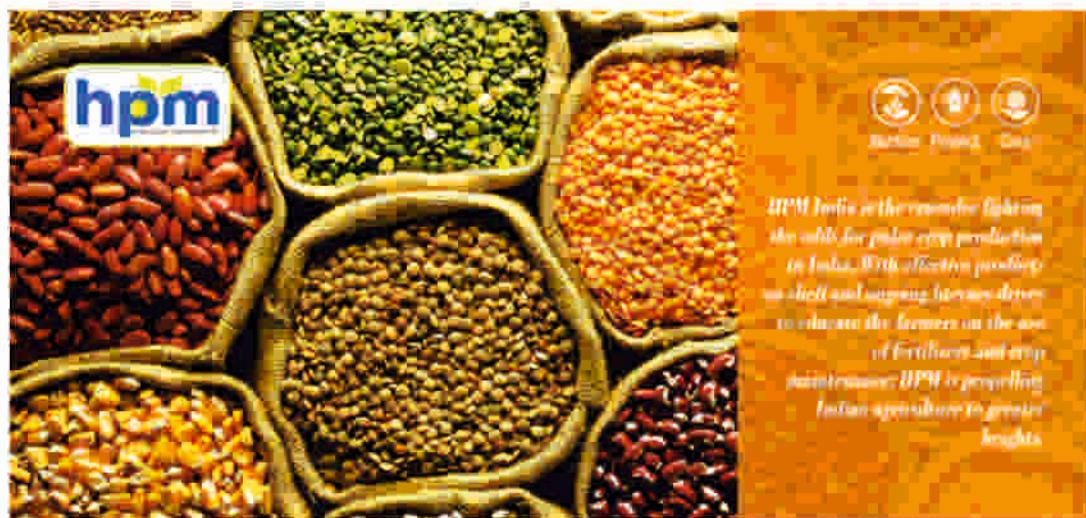
Agriculture in India needs a boost in all possible forms. It becomes the responsibility of major players to step in and be the flag-bearer of growth and productivity. HPM India is one of them.



Plant growth is a major component of agriculture and holds a lot of weight. Therefore, plant growth regulators are an important part of agricultural execution and accomplishments. They are essential tools for healthy agriculture. Plant growth regulators, abbreviated as PGRs, are plant exogenous hormones, synthetic in nature, but act similar to natural plant hormones. The major use of PGRs is to regulate growth of plants and if used in accordance with the sensible stipulations and good agriculture practices, they are known to give the best yields. Yet, misuse can lead to excessively growing crops resulting in ripening on the fruit surface with the core remaining raw, which will adversely affect the palatability and quality of fruits.

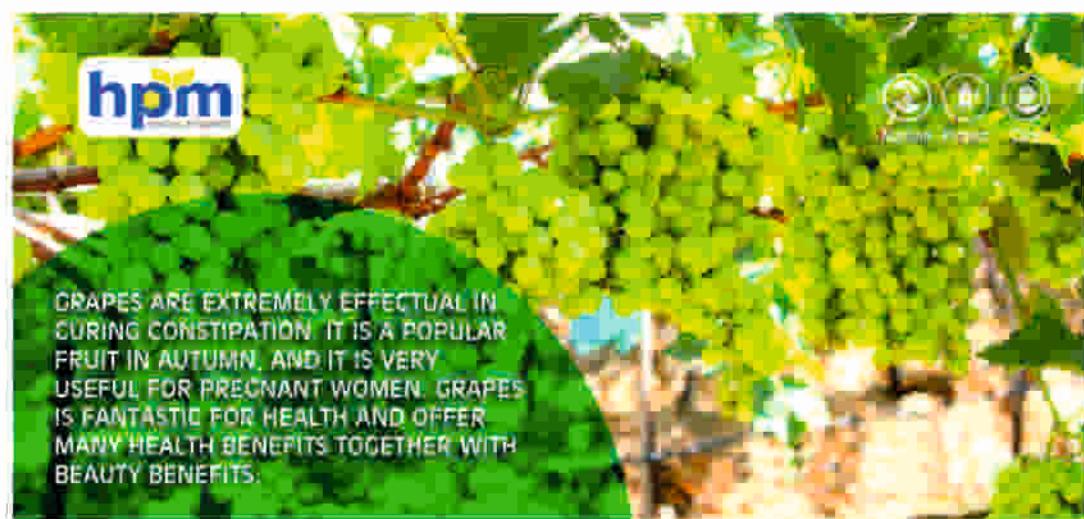


Indian agriculture is largely based on Pulses crops. In the nation, pulses are grown over an area of 29.8 million hectares with a total production of 18.6 million tonnes. Currently, the average yield amounts to 735kg/hectare, but the country needs to produce about 40.5 million tonnes of more pulses to meet the domestic requirement only, let alone the exports. This can be made possible, only if high yielding short duration, drought and pest resistant varieties of pulses are developed. With a team of highly qualified personnel and rich experience in fertilizer industry, the company has greater plans to gear the Indian agriculture, while elevating country's pulse production. In addition to essential major plant nutrients, HPM also manufacture/ imports and supplies Micronutrients, Water soluble Fertilizers, Organic Fertilizers, Growth Promoters, Zinc Sulphate, Bentonite, Sulphur etc for improving quality and enhancing productivity of agriculture produce.



Munch on grapes as you work. Grapes are full of anti-oxidants which encourage hair development. The grape produces wine that's delicious, obtaining a fruity in addition to spice flavor. Even though the most assortment of grapes is extremely sweet, its glycemic index is still at quite a safe degree of 50. For thousands of years, they have been heralded for their nutritional value as well as their use as a medicine. Breeding seedless grapes are not simple since they cannot reproduce independently.

There are many assortments of grapes to pick from. They are very nutritious. They are very beneficial for people suffering from rheumatoid arthritis because of its anti-inflammatory property due to the presence of Vitamin C in it. So eating grapes is a great means to supply your body with the phytochemicals that may guard you.



Pests are and always were a core threat to crops and agricultural. Farmers have always been looking for and devising newer methods to fight pests under a range of activities. Pest management practices is a vast topic of discussion amongst scientists and agriculturists. Usually pest management strategies are long-term activities focused on pest prevention and saving the crops. This methodical war against pests involves a stipulated use of pesticides too. The sole objective of long-term activities is to keep existing pest populations and objectives low and to control the further growth. The short-term activity of using pesticides focuses on killing the pests. Knowledge about plant health and pest ecology helps the farmers to choose effectively preventive crop protection measures. It is known that many factors influence the development of pests, therefore, the crucial to stopping the most sensitive points and control the damaged before it is caused.





It is possible for you to consume wheat in a multitude of ways, a number of the simplest and tasty ones being in the shape of sandwiches and bread. Wheat is full of magnesium, which is a mineral that serves as a co-factor for at least 300 enzymes. It is believed to be one of the most wholesome food items, and it ensures a diet rich in nutrients. Whole wheat is among the most wholesome food items which ensure consumers a diet full of nutrients. The entire grain wheat is quite full of nutrients. Wheatgrass is excellent for your liver. It is probably best known for its effects on the liver. It contains selenium, which is crucial for the healthy functioning of the thyroid gland. Also, it contains the mineral selenium that is essential for the proper functioning of the thyroid gland that, in turn, helps in weight management.

India has seen the years of extreme green revolution, that came to surface in agriculture. In past few years, various efforts are made, different approaches are adopted to boost the agriculture in many harmless ways. Huge researches are being conducted, and many developments happened that increased the productivity significantly, benefiting the entire nation. These initiatives included developing crop varieties that give higher yields, bringing in the modern equipment to be used in agriculture and adopting innovative methods of farming. Agriculture is the backbone of nation like India, and we need to sustain it. Which calls for a few steps away from green revolution, science needs to step it.



Weeds have always been posing a threat to India's natural agricultural habitat. These primarily harmful wild plants forms displaces the natural useful species and contribute significantly towards degradation of crops and soil. Thus, reducing farm and forest productivity to a large extent.

There are many such invasive species that farmers today are fighting with. No doubt weeds are the biggest enemies to biodiversity and natural habitat that is most needed for crops. The invasions of weeds change the natural diversity and balance of ecological communities, while inhibiting the entire growth channel for crops. These changes threaten the survival of many agricultural products as the weeds compete with native plants and eat up their share of nutrients, sunlight and space.

Throughout India, weeds are spreading faster than they can be controlled. All Indian states that have agriculture as main occupation have experienced weed invasion. Naturally the impact of invasive plants contributes to increase with exotic species accounting for about 15% of all flora. This figure is increasing by about 10 species per year, which is an alarming state. When drastic measures are needed to bring the weed problem to a resolution, HPM India steps in with MEERA-44 (2,4-D-Ethyloxy-38% EC).

Weeds are a serious problem throughout the nation. HPM India, with its expert panel of agriculturists and a host of remedial products on the shelf, is helping to battle the issue. At the outset of the manufacturing plant, many procedures and methods are available to manage the effects of weeds. There are literacy drives conducted by the company for the farmers to help understand the need and act accordingly. The most effective means of weed control are prevention, early detection and eradication by the use of right remedial products.

India's agriculture experiences a sea of climate change which impacts the fruit crops in varied ways. It has also impacted traditional apple cultivation in Himachal Pradesh. Geographically, HPM's apple belt is spread over the districts of Shimla, Kinnaur, Kullu, Mandi, Chamba, Sirmour and Lahaul Spiti. Owing to global warming, these geographical regions have seen a rise in temperature in the recent years. This is the reason, many states are encouraged to shift the farming to higher altitudes, but, logically it becomes a difficult task. In the recent state budget, government announced a programme for developing apple varieties which require less chilling environment and can survive in low altitude areas as well. A sum of INR 2 crore was also allocated to import good quality shoot-stocks and pollinates. Going as per the plan, around 500 acres of farming altitudes will be brought under the new and improved varieties in the coming years.

Apple farming in HP is definitely seeing a boost, as the crops are now protected by Ziram 27% CS produced by HPM India.

Ziram 27% CS

HPM India is working relentlessly for the upliftment of agriculture and farmers in India. The sole mission of this company lies in ensuring self-reliance in productivity. Being the forerunner and contributors to green revolution, HPM is a name to reckon with. The innovations that are brought to surface by the adept team is creating a wide range of crop protection products and plant nutrients. You can rely on the name for all your fertilizers, farming seeds and products that boost production.

The month of July saw tomato prices hitting the three-figure mark, leaving regular consumers with no alternative but to reduce their tomato consumption. The price hike was a result of frequent rains in the tomato producing states such as Karnataka and Uttar Pradesh, which not only damaged the crop but also affected transportation. Tomato prices usually increase during the monsoon months from June to September because the stock position falls during this season and the shelf life of tomatoes is four days.

Tomato is an essential ingredient in every kitchen because of its nutritive value as well as its versatility. Tomatoes are used for soups, salads, pickles, ketchup, purees, sauces, vegetables, oils, and in many other ways; therefore making them indispensable to cooking. Tomato has very few competitors in the value addition chain of processing.

TOMATO IS AN ESSENTIAL INGREDIENT IN EVERY KITCHEN BECAUSE OF ITS NUTRITIVE VALUE AS WELL AS ITS VERSATILITY. INDIA STANDS AMONG THE TOP THREE TOMATO-PRODUCING COUNTRIES WORLDWIDE. KARNATAKA, UTTAR PRADESH, ANDHRA PRADESH, TELANGANA, MADHYA PRADESH, WEST BENGAL AND ODISHA ARE THE MAJOR TOMATO GROWING STATES.

One of the main economic issues facing India is the condition of the agriculture. Being the source of livelihood for over 55 percent Indians, agricultural sector is an important element in our economy. Still, this sector lags or evaded as it should be and faces a lot of challenges resulting in low productivity.

In India, around 43 percent of the land is used for agricultural purposes; however, contributes only 18 percent to country's GDP. The poor state of agriculture in India is a point of concern for its entire population. The farmers in rural India suffer greatly from illiteracy and poverty; hence, there is a lack of good continuous services. To help farmers with state-of-the-art agrochemicals and other sound farming advice, HPM India, has an army of services. They are one of the leading chemical fertilizers suppliers around the world and manufacturers effective chemical to enhance agricultural products. ClodinTop-metconazole 1.5% WP, also known as CLODING SUPER in the market, is a very popular chemical used to kill harmful insects and pests that can destroy plants and crops.

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The ministry of agriculture under the Indian government is taking steps (through various programs like ITC United Plan and Insurance Plan) to improve the condition of farmers in various regions of the country. Under the Insurance Plan, Agriculture Insurance Company of India plans to insure all farmers cultivating rice, wheat, jute and rubber. Under this scheme, the farmer will be compensated in the event of natural calamity or disastrous crop failure, and the process will be regulated and supervised under the Ministry of Agriculture.



Legends have it that back in 327 B.C., the great Alexander found a mango garden in the Indus Valley. Ameri Khush, poet and saint from Turkoman, composed a poem on mangoes early as 1320 A.D. And the great Mughal emperor Akbar is said to have planted more than a million mango trees in this garden which was named as Lal Bagh.

Mango is a popular fruit in India and is commercially cultivated in several states like West Bengal, Karnataka, Andhra Pradesh, Maharashtra, Uttar Pradesh, Gujarat and Maharashtra. In India, mango is cultivated over an area of 2,500 thousand hectares with an annual produce of 127.50 thousand metric tons. While 20 varieties of types are cultivated and exported, Alphonso is very popular choice among farmers.



In the previous blog post, we discussed some key points about the sugarcane cultivation; the soil, temperature and climate the sugarcane crop needs to thrive along with the areas where it is abundantly grown in India. Even though India has huge area under sugarcane cultivation, the yield per hectare is very low compared to some of the leading sugarcane producing nations in the world. India, produces 45 tonnes/hectare as compared to 90 and 120 tonnes/hectare in Java and Hawaii respectively. Majority of the machines which are currently in use in sugar mills across India, mostly in states like Bihar and Uttar Pradesh, are obsolete and old, being more than 50-60 years old; these machines need immediate rehabilitation. Sugar mills in India need state-of-the-art machinery which would help in producing better quality sugar. However, a low margin of profits prevents many mill owners to replace or upgrade old machines with the new one.

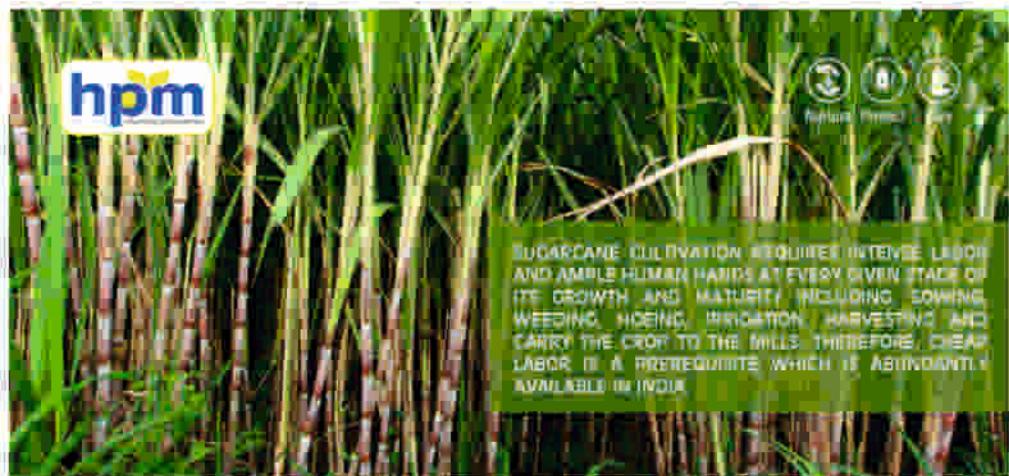
These are some of the challenges that plague the sugarcane industry in India. However, with guidance, help and assistance from government and other agricultural associations, this problem can be easily overcome.

Sugarcane, which is the primary source of sugar, jaggery and gur in India, belongs to the bamboo family and is indigenous grown in the country. About two-third of the total sugarcane cultivated is used for making jaggery and gur, and the remaining one-third goes to sugarcane mills. It is also used as raw material for manufacturing local liquors. Ideally the soil for sugarcane cultivation should be rich in calcium, nitrogen and phosphorus; however, it should not be either too alkaline or acidic. Sugarcane plants exhaust the soil fertility rapidly and its cultivation requires massive doses of fertilizers and manures. HPM India is one of the largest global suppliers of agrochemicals' fertilizers in the country and is committed to help farmers with state-of-the-art pesticides and herbicides to ensure health-free and rapid growth of the crops. Deltamethrin 0.72% +Buprofifos 5.65% EC is a popular anti-pant chemical from HPM India which is liked and appreciated by farmers from across the country.

After rice, wheat is the second most important food-crop grown in India and it is the staple diet for millions of Indians, mainly in the north and north-western parts of the country. Wheat is the main source of protein, carbohydrates and vitamins for people in the rural areas. In India, the cultivation of wheat is mainly done in the states like Punjab, Haryana and Uttar Pradesh. However, wheat is now a popular agricultural produce in Madhya Pradesh too. HPM India, one of the leading agrochemical fertilizer suppliers in the country, aims to help farmers suffering from crop damage due to bad weather or insects and pests. The company has a range of products that cater to farmers looking for better quality produce. Butachlor 50% EW is a popular herbicide that put an end to weeds and stops their regrowth. Wheat cultivation is highly mechanized and needs less labor. It grows in plenty in the flat alluvial soil found in north India.

All minerals and nutrients in our food come from the soil in which it was grown, and to create healthy please must contain nutrients, farmers need to work on healthy soil.

All soils naturally contain nutrients like phosphorous, nitrogen, potassium and calcium. These are essential nutrients that help plants to grow. When there is lack of essential nutrients in soil, or there is a short supply of moisture, growth of plants suffers and that can lead to low production at the end of the season. After the crops are harvested, it is important to restore the natural supply of nutrients in the soil. To do that, farmers add nutrients to the soil. Adding nutrients to the soil can be done in various ways like chemical fertilizers, organic matter and even plants. This maintains the fertility of the soil and ensures continuous cultivation of crops.



There are a lot of distorted information available on the effect of fertilizers on environment. It should be noted here that balanced use of fertilizers can have a tremendous positive effect on our environment. In fact, one of the most important impact that fertilizers have had to the environment is conserving wildlife habitat. The use of fertilizers by farmers facilitate high yields on the same land for many years, eliminating the need to clear new lands. While fertilizers act as an important agent to enhance productivity and growth of crops, farmers must be careful and use in right amount and at the right time to avoid impacting the environment in a negative way.

To stay fit and healthy, we need to acquire essential nutrition from various food sources. With the rise in population, the demand for food and other agricultural products will increase over the next few decades. Hence, it is crucial to keep our soils healthy with full of nutrients to feed the future generation.



Agriculture sector in India is all set to experience a sea change, all thanks to contract farming. While previously it was limited to small philanthropic initiatives from the corporate houses, now, with entry of big business houses like TATA, Reliance, ITC and PepsiCo it has become a mainstream initiative. Besides, over the last few years, successive governments at the center have been very keen incorporated agriculture where big businesses will have contracts with farmers to produce what they need. HPM India has an array of products to ensure the crops are not damaged during the harvest season and the produce is of good quality. The list of PGR (Plant Growth Regulators)—Bio-Organic, Organic Biomimetic, Zinc Sulphate 33%, Ethephon 39% I—arcane of many important inputs for the success of green revolution. PGR (Plant Growth Regulators) help plants with adequate quantity of nutrients, combined with valuable enzymes.



Production of cotton is largely depended on rainfall. And sometimes dependency on states like Madhya Pradesh, Andhra Pradesh, Maharashtra and Rajasthan for water does not help because these states receive less rainfall and face water scarcity during the harvest season. Agriculture scientists say the main reason why cotton production is low in these states is because of the over dependency on rain water. Cotton crops need moisture in the soil to thrive, especially when the flowers start to grow. However, due to lack of water retention in the soil, these states often suffer from low cotton production. HPM India offers an array of products to fight insects and pests. Acephate 75% SP is a popular product to keep your crops safe. HPM India is committed towards helping Indian agriculture and strives towards making the country a leading producer in the world.



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If the prediction of weather is anything to go by, sowing, production and harvest of cotton, India's biggest commercial crop, is slated to get a boost in 2017. This comes on the back of financial losses and other despair cotton cultivators suffered in the last few years. HPM India offers an array of products to fight insects and pests. Acephate 75% SP is a popular product to keep your crops safe. HPM India is committed towards helping Indian agriculture and strives towards making the country a leading producer in the world.

The UN Food and Agriculture organization IPPC Secretariat quotes that 20–40 percent of the international crops is lost due to plant pests and diseases. Farmers spray to mitigate crop damage due to pests. Insect pests can have large and irreversible impacts on yields and crops, which can affect consumers through higher crop prices.

Much like we take measures in our gardens to keep our crops free from insects and disease, farmers use crop protection products (herbicides, insecticides, fungicides, etc) to help control the thousands of weed species, harmful insects, and plant diseases that may afflict crops. Whether conventional or organic, farmers confront these challenges every single growing season.



Growing quantities of consumers are switching towards the diet that's organic and this has subsequently caused a rise in several farmers that are changing to techniques that are a lot more eco friendly from the more traditional farming systems. This growing trend is showing zero signs of slowing down and you can understand why, with additional studies in recent years demonstrating just how harmful the substances that are used in traditional farming would be to our health in addition to the surroundings. This is why the transition to organic farming, in addition to using products including on eco friendly pesticides and a natural pesticide from leading manufacturers companies on harvest is important for anyone involved in any sort of farming whether it is for home farming or for company farming.



Our government has started to put some efforts in the uplifting of agricultural industry in the country. There are some changes visible in core areas such as strengthening and development of agricultural education, human resource development for leadership roles in agricultural sciences and improving quality of agricultural products through innovative approaches. There is an augmentation in teaching, research and extension activities too. For this, the government is collaborating with agricultural product manufacturers to bring about the best results and reach out to many end users connected with the manufacturers. We, at HPM India appreciate this move by the government and are in absolute support to improve the conditions of agriculture and farmers of the nation.



HPM India's objectives are clearly defined on the path of agricultural betterments. Our initiative lies in planning, promoting, and coordinating agricultural education in the country by organizing literacy drives and meaningful workshops. We are always striving to enhance the quality of our agricultural products, which can provide relevance to higher farming practices anticipated in coming years. One can witness a prominent use of allied sciences in our manufacturing processes, which are a promise to develop products that match international standards.



Pretiachlor 50 EC is a broad spectrum rice herbicide which is mainly used for pre-emergence to early post-emergence of weeds.

There are many concerns that current Indian agriculture faces today. Poor booking, lesser produce, lower returns and many more owing to natural hazards too. One of such natural concerns is weeding in the crops. Weeds reduce crop yields drastically, hence need to be prevented. The most detrimental character of weeds is that they use same nutrients to grow, as plants use, that too in very similar proportions. The outer resources that are required by crops such as water, sunshine, and carbon dioxide, they are also absorbed by weeds in great quantity, leaving the crops deprived of adequate nutrition. The space that a food plant needs to grow effectively is taken by wild weed growth. Hence, resulting in substantially low yield and negligible results. Thus, weeds are the most damaging elements to crops and produce thereof.

The powerful crusaders of Indian agriculture, we HPM India are in a constant battle to do away with the factors that are harming the agriculture and farmers. We have put in our best efforts to revolutionize the agro-chemical business of the nation, to augment the produce and to boost the economy.

Our absolute endeavor lies in incorporating best innovative practices in the daily manufacturing processes, to avoid any lapses and to offer the best products. We constantly organize literacy drives for the farmers, wherein we equip them with basic and detailed knowledge of uses of fertilizers, insecticides and herbicides like Pretiachlor 50 EC. We wish to create something meaningful and fruitful for the nation. Better lives for farmers and escalated growth of Indian economy.

The green revolution in India occurred in the early 1960s when agriculture in India increased its yields due to improved agronomic technology, especially in Punjab, Haryana and Uttar Pradesh. The introduction of HYV seeds and the increased use of chemical fertilizers and irrigation leads to increased production, which was needed to make country self-sufficient in food grains. Moreover the green revolution tackled and laid to rest many problems which has been affecting the country, such as frequent famines, poverty and lack of self-sufficiency. In a country like India where more than half of the population is engaged in agriculture, and still the problem of under-nutrition is highest. The major challenge the country is facing, is not proper production of food, thus the need of second green revolution occurs and the HPM comes into existence.

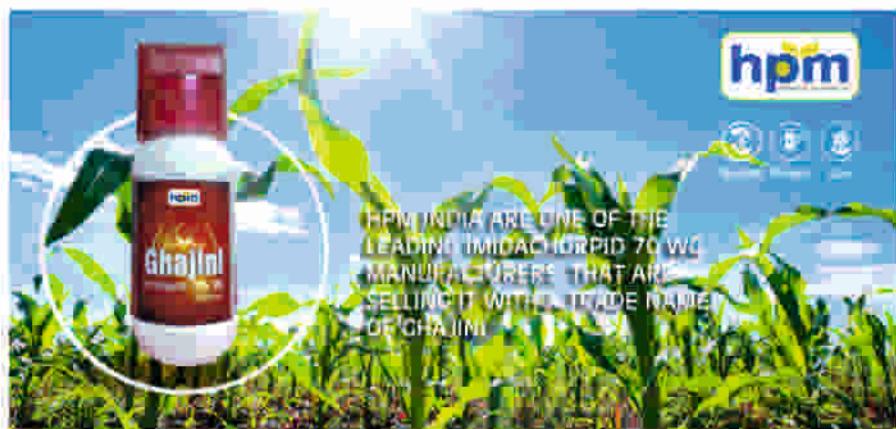


HPM is India's one of their owned names in the list of Agrochemical suppliers and has remained one over the past 40 years. The company has been working extensively with farmers and the farming community to help them raise better and healthy crops and thus become self-sufficient. The company, founded by Shri Srikisan Dass Aggarwal has a simple motto 'Yielding Prosperity'. At HPM, a future seen where not only India would be supported with quality products but also, a committed drive and effort would be taken for the betterment of the lives of those who provide us food. The company aims to provide quality agro-solutions to the farming community, which would not only preserve but also enhance the environment. HPM continually strives to promote and provide the best solutions for every farming requirement.

Few steps being undertaken by them are:

- Capitalize on the potential yield produce safe and superior crops.
- Currall loss due to unanticipated natural forces.
- Sustain farmlands for subsequent generations.
- Provide a wide range of plant growth regulators.

But the most distinctive practice of HPM experts provide farmers with extensive information on how to use the products they offer and guide them to maximize the efficacy of the same. This would ensure that the farmers are aware and educated about the new upcoming products and technology and don't become irrelevant or redundant. As a leading pesticide company both at national and International level, HPM is a leading forerunner and contributor to the Green Revolution drive.



HPM INDIA ARE ONE OF THE LEADING IMIDACHORPID 70 WG MANUFACTURERS THAT ARE SELLING IT WITH THE TRADE NAME OF CHAILIN.

With almost 58% of India's population dependent upon agriculture and allied sectors, it is an obvious fact that the sector is crucial for India's success as a country. After a couple of drought years, 2016 broke the trend with good monsoon, at least in major parts of the country and 2017 is also looking promising when it comes to rains. Hence it should look like that India's agricultural growth will be in lines with expectations and farmers will finally have a reason to rejoice. Sadly, the reality is stark opposite to expectations as proven by recent protests by the farming community in Madhya Pradesh and Maharashtra for better procurement of prices, waivers of back-breaking loans and other sops to help them survive. What misses the eye is that loans and inadequate prices are not real culprits here, but the structural problems that have crepted into the system due to overlooking of the real issues for a long time now. The malaise is deep rooted and the disease has to be treated, rather than the symptoms.

The endeavor to provide solutions for farmer's problems and ensure a healthy growth of plants leading to country's economic growth has made HPM India a leading player when it comes to fungicides and pesticides. The products being offered have passed the stringent quality tests to make sure that not only they aid crop growth without any adverse side effects, but also maintain the overall hygiene of the environment. Absolutely safe to use and pocket-friendly, HPM India tries to put as less a burden on farmers as possible while supporting them to increase their yield. We strive to contribute positively in the crop production, enhancing the quality of crops, reducing damage on the environment and providing wholesome support to our agricultural sector.

In the Economic Survey of 2015-16, it was noted that Indian Agriculture got victimized of its own success of the past. Green Revolution left many positive and adverse effects on agriculture. The phenomenon characterized by introduction of high-yielding variety of seeds and various growth elevating insecticides and fertilizers in agriculture, undoubtedly increased the produce. But the growth remained stagnant which affected farmers' income. The other effects of nature such as depleting water levels, contaminated ground, crop diseases and many more, also contributed to the decline. Thus, the agriculture sector is in anguish and it needs reforms. There are many hurdles that have to be crossed if we want to achieve this objective. HPM India, the leaders in agro-chemical industry, are dedicated to offer remedial strategies to overcome the obstacles and help farmers to see a rise in produce and income thereof.

In recent times, the sole focus on Green Revolution has proved to be instrumental and it helped to alleviate the agricultural business manifold. A substantial rise in food crop production was witnessed, which further enhanced the Indian Agriculture subsystem, helping the economic status of the nation to flourish. India being the largest exporter of nutritious food crops across the globe, needed this boost for a long time. Also, the agriculturists are aware that the byproducts of many crops serve as food for cattle and other animals, which helps the food cycle to gain balance, and the system keeps in run, owing to crop production. Today more than 60% of Indian population is into agriculture and farming, which is a major contribution to the GDP of the nation and progress thereof. Nation's exporting potential gone high and government is looking forwards to reevaluate International trade with several countries, based on this.

You cannot ignore pest invasion your farm. These tiny sucking insects can easily wreak havoc on your crop. The climate change, increasing heat, and more gentle winters have permitted the progressive as well as survival role of bugs. These pests are actually sparking a considerable farm problem in India's farming sector. Additionally, producing sufficient food to satisfy the requirements of a growing public has long been the best concern for the authorities. We, HPM India are among the very best Imidacloprid 70 WG SC companies in India. We're serving the farmer group with high-quality insecticides. Our staff of in-house experts as well as agriculturists could teach you exactly how to work with pesticides efficiently because repeated and ineffective usage of the pesticides offered in the market could be ineffective and wouldn't be efficient on plants. We're providing high quality, inexpensive pest control items which are not pricey as well as least damaging to soil as well as atmosphere we breathe in.



BLANDER is a liquid fungicide which kills the microorganisms causing the plant diseases. It is absorbed through the leaves and stem of the plant. It is effective against various plant diseases.

Since the time HPM India Incipient, four decades ago, they have made incessant efforts to stand true to their mission and vision. HPM India is now one step closer to being viewed as an employer of choice and recognized as a company that provides exceptional service as they recently added another arrow in their quiver. They were bestowed with the honor of receiving the award of World's Greatest Brands & Leaders of 2016-2017. This platform celebrates the spirit of Asia and is also instrumental in bringing local, powerful, and emerging brands and leaders of the world on a common platform to discuss issues and potentials relevant to their respective strategic decisions, thereby innovatively unfolding a permeable screen of unprecedented mutual learning and growth. No other organization does that in India currently and HPM India was recognized as a pioneer in the field of manufacturing and agrochemicals.

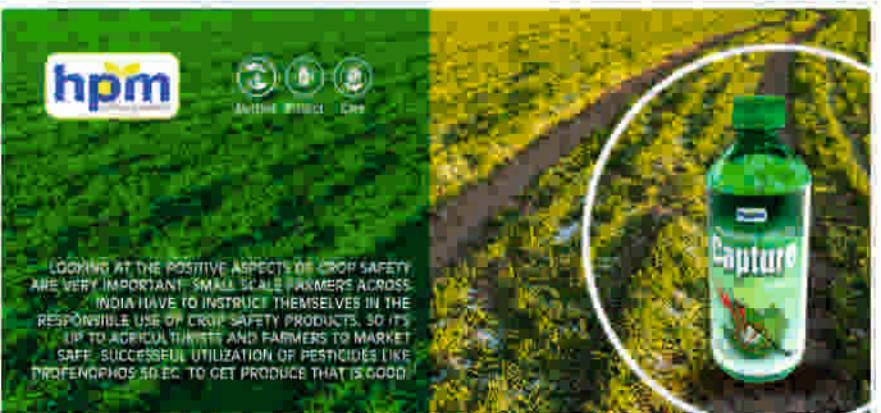
HPM is a brand that stands for Quality, Consistency & Commitment and their aim is not just to own a profitable business, but is to pave way for a bright future for the future of farmers – Yielding prosperity in every domain.

Our time obsession that is long with farming is usually to bring respect to agriculture: "—yes, we still have to remove barriers to a good farming industry."—A declaration by a respected political figure lately!

Do not you believe that the federal government, policy makers, agriculturists, scientists growers are not providing "Agriculture" the interest that it deserves, particularly as things are actually heating up in that area when a lot of producers have committed suicide in India?

Agriculture in India is actually the unsung cousin of country's entire economy, the peaceful distant relative that rests in the corner during celebration but is actually the first person to stand up to greet friends and include the luggage of theirs in the picos. Undoubtedly, farming is among the glamorous sheet though it's still the primary occupation of the countryside Indian household. India has a big countryside workforce operating in agricultural production and this will be fought to move folks out of the outlying industry and into manufacturing. It's not possible almost. We have to understand we have to shift the focus of ours back to manufacturing and farming sectors both to flourish as well as pave the way for a robust and inclusive economy. Pesticide or perhaps insecticide plays a crucial role in keeping insects away to get a great crop. The importance of understanding the advantages and specifications of profenophos 50 ec is huge.

DIA-UAE BUSINESS & SOCIAL FORUM 2017



Looking at the positive aspects of crop safety are very important, small scale farmers across India have to instruct themselves in the responsible use of crop safety products. So it's up to agriculturists and farmers to instruct safe, successful utilization of pesticides like profenophos 50 ec to get produce that is good. HPM India is but one such agriculture promoting business which is manufacturing, exporting and supplying insecticides and fertilizers of world class standards. They're also taking part in numerous initiatives to provide suggestions related to growth, agriculture, plantation, and farming which in turn may include fertilizers, pesticides as well as crop varieties for farmers across big & highly heterogeneous places.



One particular item is actually cypermethrin 25 ec which has its own specialized name as CYPERHIT-25, this outstanding item is actually a broad spectrum fungicide with protective activity, it's put on to Foliar aerosols, seed therapy, nursery drenching. It's fit for resistance managing i.e. it's multisite method of activity and also the danger of resistance growth is really small. Additionally, it gives the nourishing substances required for the crop like Zinc and Manganese. This particular solution is actually environment protected due to its great persistence in planet as it quickly degrades in actually water and soil, without leaching potential. Several plant growth regulators that will better the physiological effectiveness of the crop, improve quality and taste of fruits, promote seed germination point leading to breaking of seed dormancy and enhance stem length in flowers grown for export are being offered by us.

We, at HPM India, are offering a very reasonable Chlorypyrifos 20 EC price. We are the specialists of insecticides, fungicides and herbicides, and our products have been designed keeping the Indian crops in perspective, with emphasis on rice, cotton and vegetables. This particular pesticide is found to be very effective up to 10-14 days after application of recommended doses.

Proper training is required before, to dramatically improve crop production. Considering the advantage of crop protection farmers need to be trained in the responsible use of crop protection products. Apart from educating farmers on just plain agriculture, HPM experts are providing adult literacy drives to farmers thus provide extensive information and ways to use the products they offer and inform them of the latest technology in the realm of agriculture. Contact us to get more information regarding crop protection products.

Do you know what is the key to feed the world? It's healthy soil. Is it conventional farming practices that degrade soil health? You might not be having answer to this because you might be aware of one of the greatest modern myths about agriculture is that organic farming is inherently sustainable. It can be, but it isn't surely true in all cases. There are a lot of mouths to feed, both in rural and urban areas. Getting food to people is costly and strains natural resources. In addition, heavy rains, droughts and other extreme weather events can threaten food production. Across India, farmers are applying principles of agro ecology, using both traditional and new methods of crop protection techniques to carry out sustainable agricultural practices. It is required to pay attention to potential pest problems by monitoring every crop field. Glyphosate 41 SL is a crop protection herbicide that is suitable for use on food crops, agricultural weed and non-bearing plants.

While discussing countries success stories that have achieved amazing economic transformations — as, most especially, China has over the past few decades — observers usually credit success to industrialization. Ultimately, the visible consequence of rapid growth where sleepy fishing villages once lay, ports and factories and high-speed rail networks spring up. So, Increasing the productivity from farm to factory — that's the key to growth, right? China's excellent gains weren't achieved in a space. However, in the case of India, the things are different. If developing country like India wants to replicate China's success, it first has to improve its agricultural productivity. How can farmers improve crop yield? What is importance of crop protection for sustainable agriculture? The need for agriculture is clear. We have no viable alternatives to chemical crop protection. Acetamiprid 20 G offers safe and effective protection for both conventional and organic crops, needed to fulfill the global food-supply challenge.

HPM India is keeping up with this trend and using digital media as a liaison to connect with farmers in remote regions of not just India, but the world. India isn't the only developing nation that relies heavily on the agricultural sector; places such as Jordan, Ukraine, Turkey and Africa also represent huge potential which has hitherto been unexplored. But with Internet penetration, easy communication and networking will become facts. Creating an online network of a learning community where information about innovative agri-solutions, products, challenges faced within agricultural sector, etc are disseminated wouldn't only be for farmers' welfare but also HPM as they will be one step closer to achieving their vision of being a leader in the agri-chemicals industry that has revolutionized the same.

Within the realm of digital media, social media is the most common digital platform after websites and with more information being transferred across borders, farmers will be better equipped to keep up with modern agricultural technology thereby ameliorating the economic situation of the country and attracting investors across multiple sectors.



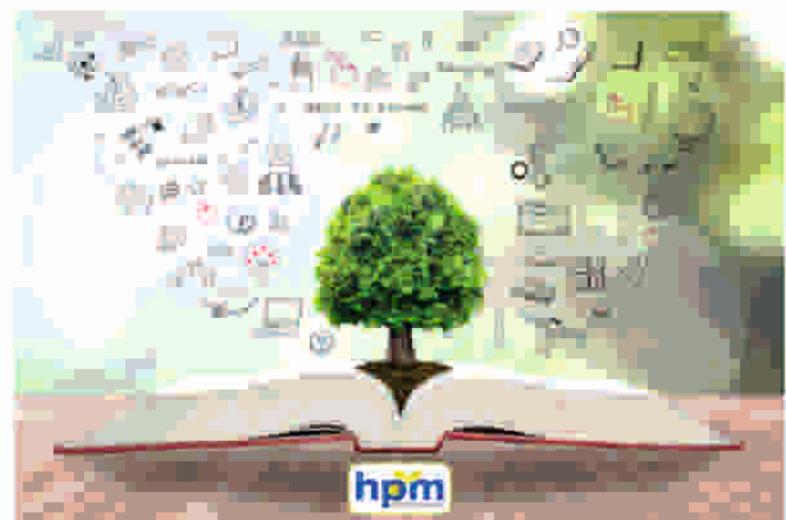


We, HPM India are one of the best Bifenthrin 10 EC manufacturers in India that is serving the farmer community with high-quality insecticides, pesticides and plant growth regulators. Our team of experts and agriculturists can educate on know-how about use of pesticides effectively. After all, proper pesticide use is the responsibility of all of us, and it will help to ensure that we can continue to grow the crops we enjoy, and practice safe, quality products for consumers!

In the present scenario, food security has improved around the world over the past five years, but hunger and food insecurity still persist. In the case of India, despite country's 'Jai-Kisan' preference, there is a huge challenge with regard to its agriculture output. Low income and productivity, irregular weather cycles, and inadequate irrigation facilities, sluggish methods of commerce of food crops are the few challenges that are making farmers unsatisfied and poor. They also face threats from pests, insects, natural calamities, thefts, damages by animals and other types of crop losses, resulting in lower yields. In order to pursue the goal of better returns from farming, farmers cannot avoid using safe and environment-friendly pesticide and insecticide. Dichlorvos 76 EC is an organophosphate insecticide that provides outstanding control of targeted insects across multiple crops.

HPM India is relentless in its efforts to revolutionize the agriculture industry by bringing prosperity in the lives of all associated with it in fact this resolve took it what called HPM to successfully initiate a reign of Green revolution in India. But the main question that looms is how and what steps should be taken to infuse meaning to the business which extends beyond profit and money. This is how HPM decided to take on a rather laborious task – providing a better life for farmers. Although all these problems can't be solved with a single solution overnight, a unified effort needs to be made to start addressing the same. One such effort made by HPM India is that HPM experts are providing cash literacy drives to farmers which provide extensive information and ways to use the products they offer and inform them of the latest technology in the realm of agriculture. The advantages of educating farmers are immeasurable; it won't only equip them with the skills to effectively use the products they have but will actively motivate them to pursue innovative agri-solutions that they initially might have dismissed as it won't seem as overwhelming anymore. But it doesn't just stop there, HPM's literacy initiative goes far beyond educating farmers on just agriculture, they enlighten and educate adults as per the school curriculum thereby giving them the chance to pursue an opportunity which was previously unaffordable. By visiting various villages and organizing these education drives HPM India is fully standing by their motto of shielding prosperity as they initiate proactive measures to not only ensure quality products for India's agricultural activities but also enrich the lives of the harbingers of food—the farmers.

In India almost 8,000 farmers had ended their lives in 2015. When compared to numbers of suicides in 2014, it is roughly an increase of 40 per cent. The situation is showing no signs of improvement, as the current year has witnessed more than 400 suicides in the Marathwada region of Maharashtra alone. Why farmer suicides? Why are they not able to live with pride and dignity, despite doing the noblest job—that is feeding the hungry world? Lackluster approach of administration, unavailability of affordable credits, corrupt middlemen and indifferent political class is among the factors that have pushed farmers to their breaking point. These suicide cases are merely an indication of the miserable condition of farmers. Agricultural distress has plagued the country from last few decades. In order to gain higher growth in food grain production and other agricultural commodities, it is essential to use all natural resources. As agriculture, insects, bacteria, pest, fungi and other organisms can harm the agriculture production. However, if pest and insects resistance is managed effectively, it keeps away the diseases away from a crop. Bifenthrin 10 EC is one such insecticide that can make your farm less vulnerable to pest and disease infestation.



Modern farming depends on pesticides and chemical fertilizers as solutions to preventing plant disease and maximally increasing yields. When agriculture progresses, the farmer prospers. Effective & extensive implementation of insecticide like Profenofos 50 EC can improve the quality of life of farmers and economic productivity of their farms.

According to Associated Chamber of Commerce and Industry of India, annual crop losses due to pests and diseases amount to Rs 50,000 Crore (\$500 billion), that is an important number for a country like India where millions go to bed hungry every night. Using insecticide doesn't mean that you are anti-organic. It means we are protecting what we have.



Insects are of concern for farmers in India. The insects start sucking at the plants at an early stage of development, which destroys the production. This is the reason why Indian government is focused on the agriculture sector. Almost 55 percent of India's population resides in rural areas and the farmers "the custodians of the countryside" are producers of food and, increasingly, energy. What is the future of farming? How compatible is the present agricultural production with the reduction in environmental impacts? What is the role of agrochemicals in helping foods to sustainable balance? Undoubtedly, technology is providing a new armory to support farmers. Precision agriculture technologies, proper use of pesticides and insecticides have transformed to way farming is done. Crop protection is science in itself. Disulfotiluron 50 WP is a popular insecticide that is used for pest management in cardamom and other crops.



India is experiencing high rate of economic growth in the last two decades but this growth has been coupled high rate of food price inflation. In addition, despite consistent agricultural growth, rural food security is presenting challenges for government. The per capita income has significantly increased the demand for food but agricultural production has failed to keep pace with the growing demand. To restrain the environmental impact of agriculture as well as produce more wholesome food, farmers have turned towards organic farming that avoid use of synthetic fertilizers, chemical herbicides. But do you think organic agriculture can feed a world of nine billion people? Just like you can't fight a modern war with great war for Bhishma's Gada, you can't have natural agriculture of Mahabharata or even 1950 style agriculture to address this global food requirement. When still-growing human population requires more food, we need to adopt fertilizers and insecticides like Avaprofex 25SC to boost crop production.

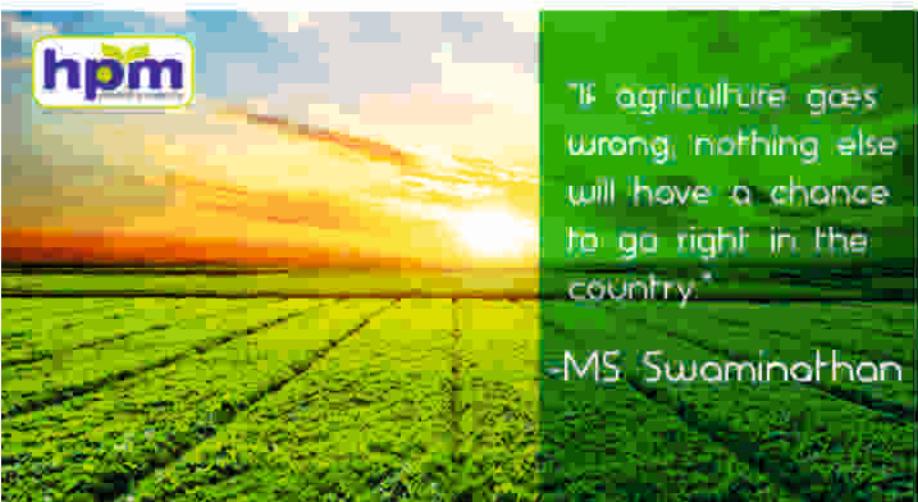


The Agriculture and allied sectors continue to be crucial for sustainable growth and development of Indian economy. However, the sector is currently facing a dilemma. While it has achieved a regular pace in attaining the agricultural development goals of food security, sustainability and accessibility, it is still being challenged by a formidable agricultural pest. Fleas and ticks are real threat to crop. Termites, a group of insects belonging to class Isoptera, is one of the most damaging insects of agriculture, forestry and housing sector. These fungus-growing termites can attack plants in any stage of development from the seed to the mature plant. Now to prevent agriculture from damage by this insect Indachloropid 30.5 SC can be used to control termites in various agricultural and horticultural crops like cotton, maize, groundnut, jute, pulses, potato etc.



HPM envisages a future wherein not only India's agricultural activities are supported with quality products but also a concomitant betterment of the lives of the harbingers of food - farmers. HPM aims to provide quality agri-solutions to the farming community, while not only preserving but enhancing the environment. They are in the burgeoning stages of revolutionizing the industry as they continually promote and provide the best solutions for all the farming needs. Just to name a few out of multitudinous ways in which HPM is trying to boost green revolution and upliftment of farmer's area.

The most significant part of HPM's working is that HPM experts provide farmers with extensive information and ways to use the products they offer and guide them to maximize the efficacy of the same. This is how they'll ensure that farmers are aware about the new upcoming products and aren't phased out of the industry as history suggests. In the words of M.S. Swaminathan - "If agriculture goes wrong, nothing else will have a chance to go right in the country."



One such product is HINDUSTAN M-45 which has its technical name as Mancozeb 75% WP. This brilliant product is a broad-spectrum fungicide with protective action, it is applied to foliar sprays, seed treatment, nursery drenching. We are offering many plant growth regulators that can improve the physiological efficiency of the crop, enhance taste and quality of fruits, and promote seed germination point leading to breaking of seed dormancy and increase stem length in flowers grown for export.

Until now, it was believed that gene-processed BT hybrid cotton is the only way to get more yield than cotton cultivation. Today, there are many resources available in agro-science, which can be used to increase the production of cotton even in those areas which are completely dependent on rain for irrigation. The Nagpur-based Central Cotton Research Institute (CCRI) has developed an extraordinary new technique 'High Density Cotton Planting System'. Under this technique more plants are planted on the per hectare land, from which the success of the cotton production. Generally farmers impose 50,000 to 55,000 saplings per hectare. Under the new technology, the seeds are sown at a short distance, which is done by sowing 2 lakhs of hectare per hectare. The excessive production of cotton is due to sowing more number of plants. These varieties of cotton are very favorable for soft dense planting, which do not compete with each other for getting the sunlight, nutrient elements, and whose plants are neither long and taller, and they neither spread too much.



We at HPM India is constantly working towards producing highest quality of products to boost cotton crop production & one of our products i.e. AASHIRWAD SC, Technical name : Fipronil 5% SC is helping farmers across India to produce finest quality of Cotton. Contact us now for more information on AASHIRWAD SC.

VICTORY AGAINST PESTS

HPM is a company that is devoted towards giving back to the society and the community that has given their trust and faith in us. HPM not only cares about the farmers of our country, but as a guiding force, we have directed a major part of our production and R&D towards helping the common households of our nation benefit from HPM's top quality leading products. Our scientists have worked hard for years in order to drive HPM to the top of India's Agrochemical producers, and now we're all set to help the households fight one of the biggest problems that plagues them, termites. Our products are designed to offer the maximum performance while at the same time protecting the home and the people within it from any damage. Since we understand how difficult termites can make life, specially for the wooden structures in your home, we have created highly effective range of products that are specially designed to target termites and pests.

To imbibe more trust in our readers, our product Triadul 20 was recently heavily featured in several press release articles (UNI) and was appreciated for its quality engineering and durability. The scope of use and access is something that has also got us having reviews about our products.

HPM aims at becoming a global leader in agrochemicals and farming products and this zest also inspires us to give back to the household community which forms a majority of our country and society. The entire household pest control range is tested extensively and will definitely provide you with the best quality results.



For decades it has been believed that India is an agricultural country & our farmers have been taking forward the same traditions as of today. It is one of the most important occupation in India for most families, about 16% of the total GDP & the 10% of the total exports are constituted in Agriculture only. Over 60% of the land mass of India is Arable which includes rice, wheat, onion, mangoes, Brinjals, cotton, sugar-cane, potato & tomato etc. The amplitude of Green Revolution on the agriculture industry is also considered as one of the important breakthroughs in the Indian Agriculture subsystem. We have been seeing incredible increase in the production of food crops & it has also increased the production capability of Indian feed which constitutes towards the thriving economy of India.

EPTC herbicides kill all kinds of weeds (grasses and broadleaves) by disrupting the plant's ability to synthesize critical amino acid like tryptophan, devoid of which they starve to death. Dhyuv and Garud are two such herbicides that HPM provides.

After understanding a few mechanisms of how selective herbicides work let us now look into how selective herbicides only affect weeds and not the other useful crops we are trying to grow. The main reason is because, useful plants are able to metabolize the herbicides more rapidly than weeds, allowing them to survive. In other cases such as 2,4-D, some useful plants are unable to break it down into the active form of 2,4-D (which is a synthetic toxin), thus they survive while weeds that can break down 2,4-D to 2,4-D do not.

After this quick period, it must be thereby paled that HPM offers a comprehensive weed-control solution to all farmers as their range of selective herbicides are extensively based to target all kinds of weeds. As Johann Wolfgang aptly said the famous words 'precaution is better than cure', let us join HPM in its efforts to do the same.

'Precaution is better than cure'

With a wide range of paramount herbicides, join HPM in supporting the Indian agricultural industry.

Before we comprehend the logistics of how HPM India's range of herbicides are an all inclusive mega pack which should be an absolute mandate to be owned by all Indian farmers, let us first digress from the topic and delineate what herbicides and noxious weeds are. Herbicides: For a layman with a smattering knowledge on the subject of agriculture and its concomitant agrochemical products such as fertilizers and pesticides, herbicides can simply be defined as chemicals used to control all types of weeds ranging from annuals to perennials.

hpM

Our experts provide information and techniques to farmers about our most popular insecticides to assist as a medium to connect farmers with the products.

Acefox

Our experts provide information and techniques to farmers about our most popular insecticides to assist as a medium to connect farmers with the products.

hpM

Being the most important fibre crop not only in India but across the globe cotton is arguably the most used raw material to the textile industry. Usually grown in the tropical & sub-tropical parts of the world as it requires a marginal high temperature for growth varying between 22°C to 30°C. As soon as the temperature starts falling below 20°C the downfall in the growth of cotton can be seen. The basic water requirement of water can be average rainfall of 50-100 cm. With the best practices of irrigation it can also be grown in areas where the rainfall is not adequate. As of facts, the one-third of the cotton cultivation is being taken care by irrigation process only. About 80 percent of the irrigation is done in Punjab, Gujarat, Maharashtra & Rajasthan. The cotton plant becomes very susceptible to various pests & diseases.

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Across India, farmers are applying principles of agroecology, using both traditional and new methods of polyculture, and pest control.

Acephate

hpM

More than 100 countries Acephate 25 SP use in agriculture can have many effects on health: short-term, long-term, acute poisoning, chronic illness leading to severe neurological and reproductive damage, cancer and death. Without agriculture, there is no food, and without food, there are no people. We, HPM India are one of the best companies to offer safe, effective insecticides and pesticides that work to repel unwanted birds & pests from your farm or garden. Our main goal is to decrease conflicts between human and insects by offering solutions using the most acceptable and economical products possible. Our experts and professionals are well trained in pest control, identification of plant disease, damage recognition, and management methods and safety. Our entire range of products is produced as per international quality standards. We ensure that the Acephate 75 SP insecticide is quality tested. You can get Acephate 75 SP price details with a single click. Contact us now for the information on dosage, uses, mode of action & prices in India.

hpM

This insecticide is known to boost the growth of rice crop by eliminating the popular types of Pests that affect

APOLLO

In Asia alone, more than 2 billion people derive 60 to 70 percent of their calories from rice and its products.

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Rice is the most important food crop of India covering about one-fourth of the total cropped area and providing food to about half of the Indian population.

This is the staple food of the people living in the eastern and the southern parts of the country, particularly in the areas having over 150 cm annual rainfall. There are about 10,000 varieties of rice in the world out of which about 4,000 are grown in India.

Rice is life for thousands of millions of people: in Asia alone, more than 2,000 million people obtain 60 to 70 per cent of their calories from rice and its products. Recognizing the importance of this crop, the United Nations General Assembly declared 2004 as the "International Year of Rice" (IYR).

At HPM India we are manufacturing highest quality of Buprofezin 25 SC i.e. APOLLO, this insecticide is known to boost the growth of Rice crop by eliminating the popular types of Pests that affect the growth of Rice crop.

Being an agricultural country, India needs to reform old processes, empower our human capital & aims to rejuvenate the economy. However, India's agricultural sector is on a ventilator. Today, we as a nation should focus on how to synchronize modern-day developmental concepts and entrepreneurial models in agriculture to enable the economic empowerment of farmers and others living in rural areas. In order to increase the income of farmers, we need to pay attention to crop production, crop protection, prevention of losses, both pre and post-harvest. Crop protection by pesticides is science and practice of managing plant diseases, weeds, and other pests. Phorate 10 CG is a toxic organophosphate pesticide used to control insects, leafhoppers, leaf miners, thrips, some nematodes, and rootworms.

Don't you think, in present scenario "cultivator of the earth (farmers) are not getting dignity they deserve"? Growing food is not some holy calling. Rural India desperately wants to learn best practices for farming. Low income and productivity, irregular weather cycles, inadequate irrigation facilities, sluggish methods of commerce of food crop, low levels of support from the government seem to be the most important reasons among farmers for being unpleasant and unsatisfied. The ultimate goal of farming is not the growing of crops, but the cultivation and perfection of human beings that must mediate between nature and the human community. It is about joy and good health. Teaching farmers to produce and save their own crops is an important component to bring delight in their lives. In order to save the crop from damage and produce better crop variety, farmers have option to use safe and environment-friendly pesticides and insecticides. The best way to save your crops is to keep pests away from your field.

India's economy is heavily dependent on agriculture as more than 60 percent of the population is employed in this sector and related services. The Indian farming sector has shifted to the modern system of production with the advent of green revolution in the 1970s. The present system of agriculture involves sustainable farming based on technologies increasing use of pesticides that are widely used by crop producers in order to combat risk associated with pests and diseases. To most of the farmers, pesticide use is an inevitable aspect of farming or gardening, as the pests can ruin the crop if not they are not controlled.

Broadly, pesticides can be divided into fungicides, herbicides, insecticides, molluscicide, nematicide, rodenticide, plant growth regulators and others that are used to destroy others unwanted living organism. The dedicated use of pesticide application, advance-planting methods, machinery in farms and agricultural settings can eventually double or even triple crop production. The use of pesticide like Imidacloprid 17.8 SL works in many different ways by affecting their target, whether it is a weed, pest, or disease.



HPM is one of the best to offer you professional advice and products such as Phorate 10 CG to deal with major challenges that loom large in the agriculture sector in India.



HPM's Emamectin Benzoate 5 SG is a new insecticide that provides outstanding control of targeted insects across multiple crops.

Backed by the team of professionals and experts, we HPM India, are one such Emamectin Benzoate 5 SG manufacturer in India, who offer recommendations including fertilizers, pesticides and crop varieties for farmers across large and highly heterogeneous areas. Emamectin Benzoate 5 SG trade name is X-PERT.



Super Gold 17.8 SL is a 5 liter spray for the control of weevils and other insects to grow the entire family vegetables and vegetables.

We, HPM India are one of the best Imidacloprid 17.8 SL manufacturers in India that is serving the farmer community with high-quality insecticides. Our team of experts and agriculturists can educate you how to use pesticides effectively because repeated and ineffective use of the pesticides available in the market can be useless and would not be effective on plants. We are offering high quality, low-cost pest control products that are not costly and least damaging to soil and air we breathe in.



Here we tell you about the latest emerging trends in the realm of Indian Agriculture. These trends relate to a variety of topics in the Agro-Industry, pertaining to latest product trends, development in technology, customs and producers relations, and several other topics. Read on further to find out the latest trends in the industry, which are an epitome that the backbone of the Indian Economy is a booming and flourishing industry. As technology evolves and as people become more concerned about the safety of what they eat, a natural result is a frenetic rate of growth in direct relationships between growers and consumers. HPM's motto of yielding prosperity focuses exclusively on the thriving relationship that we have established with our primary customers, and in turn help the producers of food and agro-products establish a further flourishing relationship with the mass population.

Agriculture plays a crucial role in India's economy. Still, after the advent of rapid industrialization and technological developments, over 58 per cent of the rural people depend on agriculture as their prime occupation of livelihood. From the last few decades, the agriculture sector is in a state of distress that is particularly affecting small and marginal farmers. However, in recent years, efforts to develop, refine and disseminate agricultural technologies, several significant progress have been adopted to reduce the cost of production, save water and nutrients, increase yields, increase crop diversification. Here comes the need of plant growth regulators that are currently become an integral part of agricultural and horticultural practices. One such plant growth compound is Gibberellic acid (0.001 L) that is a hormone found in plants and fungi.



Our long time obsession with farming is to bring 'respect to agriculture'...yes, we still need to remove barriers to a healthy agriculture industry." – A statement by a reputable political figure in recent times! Don't you think the government, policy makers, agriculturists, scientists, farmers are not giving "Agriculture" the attention that it deserves, especially as things are heating up in this space when many farmers have committed suicide in India?

Agriculture in India is the unsexy cousin of country's whole economy, the quiet relative that sits in the corner during wedding celebration but is the first to get up to greet guests and put their luggage in the room. No doubt, agriculture lacks the glamorous sheen but it is still the main occupation of the rural Indian household.

So, India can't ignore farming sector to boost manufacturing or other industries. Farming sector has a great threat from pests that can ruin their crops and their livelihoods. These tiny creatures can infest crops and reduce yields, reducing overall economic production and food security. Maintenance of crop health is essential for successful farming. In recent years, several new insecticides like microcofroids (Thiamethoxam 25 wg), Dicimides, Ketometh, Pyridines, Fluconicofoids, have been discovered and commercialized in order to use in modern crop protection. India has a large rural workforce working in agricultural production and it would be difficult to get people out of the rural sector and into manufacturing. It is impossible almost. We need to realize that we need to shift our focus back to farming and manufacturing sectors both to thrive and pave the way for an inclusive and robust economy. Pesticide or insecticide plays a vital role in keeping insects at bay to get a good crop. The value of knowing the benefits and specifications of Thiamethoxam 25 wg is huge. Considering the advantages of crop protection are so significant, small-scale farmers across India used to train themselves in the responsible use of crop protection products. So it is up to farmers and agriculturists to promote safe, effective use of pesticides such as Thiamethoxam 25 wg : <https://www.hpmindia.com/product-insecticides2.php>, to get good produce. HPM India is one such agriculture promising company which is manufacturing, supplying and exporting fertilizers and insecticides of world-class standards. They are also involved in various initiatives to offer recommendations related to farming, plantation, agriculture and growth which include fertilizers, pesticides and crop varieties for farmers across large and highly heterogeneous areas.

Red chilly has become a very famous spice all over the world owing to its different characteristics including flavor, taste and pungency. This spice was quite an expensive one in olden times, and therefore, it has become a very important & integral spice. Over the years, Red Chilly has become the best spice used in kitchens across the globe. Red chilly is used in dried form as well as the powder form both for vegetarian chillies and in non-vegetarian cooking as well. Owing to its universal consumption, red chilly is called "the Queen of Spices". Along with its great use in cooking, Chilly has its medicinal value too. Red Chilly greatly eases the digestion process, forms blood and is also a great source of Vitamin C that increases immunity. The Chilly crop is known to grow well in the fertile soil, which is deep and loamy that has opt moisture content in it. The most appropriate time to sow chilly is between the months of April and June; that is in the hot & humid climatic conditions. At the time of harvesting, dry weather is needed.



hpm

Farming is a challenging occupation. But it is one that has built the backbone of our country. Even since the dawn of time, farming has been the most fulfilling occupation in our country. And we are all indebted to our farmers for working day in and day out for the betterment of the people. However, the fact still remains that farming is a challenging occupation. It is dependent upon the hard work of the Farmers, weather and climate, availability of resources, and the most common and repetitive problem i.e. insects & pests. Not only does HPM's pesticides and insecticides protect the crops, but since they are created using environment friendly materials, they do not harm the crops in any way, but rather enhance the plant and soil. The products are designed to prevent any contact between the pests and plants, and we have provided satisfaction and happiness to farmers all across the world with our products.



Widely known as the most important of all the food crops, Wheat is the most grown crop in India. It is being grown in India for more than 5000 years & the new age wheat i.e. *Triticum aestivum* or the common bread Wheat is being consumed all over India. It is being produced most in the states of Punjab, Uttar Pradesh & Madhya Pradesh. Wheat sets up well in the low temperature as it is a winter crop & it requires no less than 7.5 cm rainfall. Clayey soil is more preferred which is well drained & requires less water.



As it is an important part of diet where we can either consume it in the refined form or the unrefined form, from noodles to the chapattis & other various edible food products that form our daily staple diet consists of wheat. The major source of the vegetable protein is compared to other few cereals being produced in India.

जहां जोई रसायन हरी है तो भालू उक्के केवा है जहां कूरी राशने अमृत पुकिका जिम्भाती है तो बैलस अंडाकाटथा के लिए बलिक छानता आबादी के बहुमान के चीका के लिए भी, हमारे किसान देश में न केवल सबसे मेहनती समर्पित गैर मेहनती दोगों में से एक है बल्कि पूरे विषय में है, अप्य बारों के बालाबा, भालू और उद्धुवाओं के उत्पादन में मुश्किल भर में बेकाम है वर्ती यह समारोहियाँ जीवंती गैरुनगर और सामाजिक कामालाएँ। हम कई दूषणीय उत्पादों के उत्पादन में यासा होने के कारण, दूषिता भर में बहुती गैरुनगर के देशों के कारण उत्पाद और नियन्त्रित नीति द्वारा विश्व में नेतृत्व हो रहा है जो बालाक, भालू और कूरी का देशनार्थ बालादी विश्व लार की बाबत का उत्पादन है और मुख्य रूप से आसामी जाति का उत्पादन न केवल भारत द्वारा ही जाति के सभी उत्पादन का जागतिक 20 प्रतिशत का बांधकान करता है, बल्कि भारत, भूटा, जागामी आदि दो लक्ष विभिन्न द्वारा के जाति का विभिन्न करता है जटि उत्पादकों में से एक है, भूटा जो जाति बहुत रुका से उत्तरी और उत्तर-पूर्वी सभ्यों में उत्पादन है इयोंके यह उत्तरी यार्दी असिक्काम मात्रा घास लगते हैं, पर्यावरण, उत्तर प्रांत, बिहार, पञ्चाश जैसी यार्दी, येत्री जाति के उत्पादन में प्राथमिक धूगिका जिम्भाती है वर्ष, जब हम जाति जैसी जो जाति कर रही है, तो भारत में लग्नावितानगुल्मामरा की गुणवत्ता जाति जाति लाने वाला वारासी जाति है।



hpm



Our Vision: to be a world-class organization by enhancing value for farmers and other stakeholders, by caring for employees to injury their engagement as a motivated team in an open and learning environment, by setting new performance standards and by focusing on Total Quality Control, Innovation and Responsiveness.

There is no question that fertilizers increase productivity of crops around the world. Use of modern fertilizers exploded after World War II. Ammonia-based fertilizers also led the process of specialization of pesticides that was being carried out in agriculture. Vastly expanded food production and helped stave off the world hunger. Modern farming, including the use of fertilizers and herbicides, could "double or triple food production" in India. Increased food production would also reduce the need for wild lands for agriculture, thus contributing to the better conservation of biodiversity.

Growing quantities of consumers are changing towards the diet that is all-natural and this has subsequently resulted in a rise in many farmers who are changing to techniques which are much more eco friendly from the more conventional farming systems. This increasing trend is showing zero signs of slowing down and you can understand why, with additional studies in recent years demonstrating just how dangerous the substances which are utilized in conventional farming are to our health as well as the surroundings. This is the reason the transition to organic farming as well as using goods including an eco friendly pesticide and an organic fertilizer from top manufacturing companies on harvests is significant for anybody involved in any type of farming whether it's for house farming or for business farming. Have a look at the major reasons you need to be contemplating making the change to the eco friendly all-natural insecticides, fungicides and plant nutrient functionality fertilizer from the conventional chemical pesticides and fertilizers.

Fertilizers and pesticides both have definite advantage & disadvantage associated with their use. Both types of chemicals tend to increase yields, and thus make a significant contrast in food production, particularly in countries that struggle periodically with famines. On the other hand, they both contribute to erosion of soil because the chemicals wash off with the rain affected farms along with disintegrated soil after each rainfall. There is also concern by authorities that usage of the pesticides poses a risk, not only to animals and plants, but to humans as well.

According to the National Institute of Environmental Health Sciences, pesticides have as yet incompletely understood effects on humans. Most people are exposed to a certain level of pesticides. Farmers who experience routine exposure to pesticides have exhibited neurological symptoms such as headache and hand tremors. Children, in particular, may be more susceptible to negative effects resulting from pesticide exposure. Pesticide runoff can have devastating effects on non-target organisms as well. For example, roundup, an extremely common herbicide used in agriculture, is highly toxic to fish and amphibians.

Inspired to deliver new & innovative path breaking solutions
for Indian Agricultural needs

Where large-scale insect control measures are needed chemical pesticides are mainly used. Insect population is not just exterminated by them at one stroke, but also reduce their recurrence. But their adverse effect on ecology and the surroundings isn't fathomed yet. Lots of study results come out lambasting the usage of these killer substances. The best disadvantage is the fact that it doesn't discriminate between benign and dangerous animals which come within their way. The consumer can be even harmed by normal exposure too. Deposit from these toxic chemicals ultimately enters fruits which they're utilized, leading to individuals consuming dangerous levels of killer with harmful effects and the plant. Instances of nervous and physical problems discovered to be due to over use of pesticides currently nearly corresponding to that due to insect itself.

We put the farmer first to all our initiatives.
Crop protection, plant health to storage and
more, we provide solutions from pre-sowing to
post-harvest.



Samosh Krish Divas' partnering with villages from the interior of the country and under the guidance of our MD Ashok Aggarwal and Director Tapasya, our initiative was to focus on Government primary schools so that we could connect with the maximum number of kids and give them the most current and relevant information about farming techniques, advancements in irrigation technology, crop growth and information, and several other tips and techniques. They were taught about the relevance of farming in our economy and how these kids as individuals can contribute to the betterment of the same. Our team took the initiative to distribute merchandise that has been specifically crafted keeping in mind the needs and requirements of kids from primary schools. Our gift package included a highly durable and useful water bottle, notebooks made from recyclable material and a infographic designed specially for kids so that they can understand the information that has been provided to them. '**Samosh Krish Divas'** was a major initiative that focused on moulding the kids' understanding towards the importance of farming. Our company takes pride in the success and the large scale of the event. It was a challenging task for the team to organise such an event on a Pan-India scale, but HPM only believes in setting the bar higher for ourselves. We are grateful to the school authorities and the village personnel for assisting us in all ways possible to make this event a grand success. Our best wishes out to the kids from each and every one of the seventy-two schools for their future. And finally, the CSR event was not just something that we were compelled to do, it was something that the entire ideology of HPM stands upon- yielding prosperity.

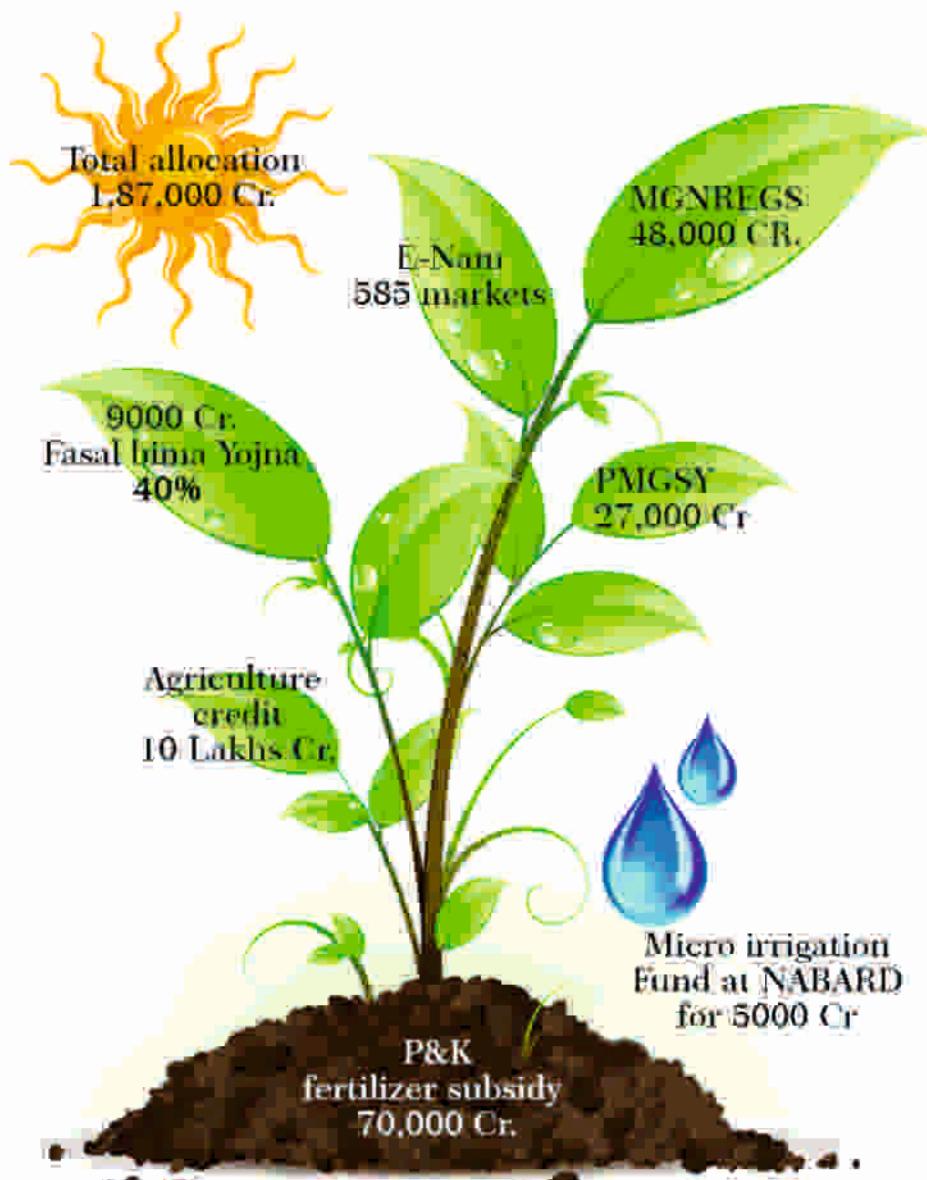
Four Dimensions of Food Security

Financial Availability of Food
Financial availability of food depends on the income level of the household. If the household has enough money to buy food, then there is no food insecurity.
Economic & Physical Access to Food
Economic access to food means that the household has the ability to buy food. Physical access to food means that the household has the ability to get food.
Acceptability
The food must meet your culture's standards of acceptability. This includes taste, texture, color, smell, and other factors that are important to you.
Food Safety
If food is unsafe, it can make you sick. Therefore, the food must be safe to eat. This includes avoiding food that has been contaminated by bacteria or viruses, food that has been prepared incorrectly, and food that has been stored incorrectly.

2025 might see India at the threshold of being the most populous country according to World Bank Data sources. With such an alarming threat what comes attached is the possibility of Food Insecurity. Such situations toll in the additional challenges like shrinkage of agricultural land and more. Along with population control measures, maintaining food security holds utmost importance now. Food security, the physical and economic access to sufficient, safe and nutritious food is an essential factor for a nation. For a country to develop, its people should lead an active and healthy life based on preferred and balanced diet food intake.

India has also witnessed a considerable decline in its child nutritional status & child mortality rate, which are poorer compared to Sub-Saharan African Countries & neighboring South Asian countries. To add to the adversities, India has slipped over to a position, which goes below the ranking of neighbouring countries like China, Nepal and Pakistan. Another challenge that food security faces in India is the factor of Gender Inequality. Food security is a major matter of concern for women who are incapable or disallowed employment- all formal, informal or agricultural. Despite counted among developing nations, percentage of chronically hungry women is alarmingly high.

Fertilizers are added to the soil for augmenting and intensifying plants' growth and yields. We can say that fertilizers act as a kind of catalyst in the whole process initially used by the ancient-time farmers, the technology of manufacturing better fertilizers developed over time considerably as the chemical requirements of growing plants were identified and discovered. The modern-day synthetic fertilizer compounds mainly consist of the compounds of phosphorous, nitrogen and potassium along with various secondary nutrients that are being added to these. The usage of these modern-day synthetic fertilizers developed using state-of-the-art technology by Industry-leading Indian company, HPM, is giving proven results and has extensively ameliorated the plant yield quality as well as the quantity of the food that is available today from these yields, though their use in long-term is quite debatable and has been questioned time and again by many environmentalists.



हुए कामों योग्यतापैक्यातीनि और व्यापक सिद्धांशु द्वारा दी है, गणप्रदस वाटडे-कौमुदी ने शाकों को शाक तृष्णि निर्दिशों ने जारी कर दी है। इन साल तृष्णि जल सीधे जला जाए रखा जाएगा इयोड की जरूरती ही बढ़ोत्तम अवधि रख देता है। इस दो वीज साल के दूसरे प्रवाह में ही की तृष्णि जल अस्था ऐ चुहे लिस्ट के द्वारा जारी कॉड फैलों लो डिजिटल वातावरण जाएगा और उनके मुख्य वैकिन्ह बंदोबस्तों ऐ बोझ जाएगा। डिजिटल दोनों का उत्तर द्वारा आवाही दीला है। २०१७ दो तृष्णियों लगते से डिजिटल पारदर्शिता दी गी और साथेर बदल बदले जाएं दूसरी दिसावरों को फ़ूलर व्यापारावान बदलावें। डिसावरों द्वारा उपलब्ध होने वाली के लिए व्यापारावक चीज़ों दीलों वीज और फ़ूलिंगलर वाले व्यापारी द्वारा बांटेने वाली जाति को बीज यात्रा और इसी द्वारा सिद्धांशु के लिए डिजिटलपूर्वक बदलाव दो निषेद्धान उत्तरे हैं और वास्तवी उत्तर के बाप-बाप निषेद्धी के संभव्य से तुरी कांडामिश्यों वाली जानी हो। हाल ही के दिनों में गुल बदलाव वीज तृष्णि की सतानाए एवं निष्कृत दबद्दीय वीज अन्तर्वृद्धीक घटनों पर बड़ी व्युत्कृष्टता दो राज्य जड़ाना लगता है। २०१६ के कृषि वार्ताग्रंथी द्वारा व्यापारावान व्यापारावों द्वारा जड़ाना है।

२०१७ का कृषि वर्जन दूरगामी परिणामों और तार्किक गहरा दोलों में से पर काफी ऊर्जा का संचयर लर रहा है। ये नीतिया अर्थव्यवस्था के दूरगामी सकारात्मक परिणामों के लिए काफी बढ़ती हैं और इनमें वैज्ञानिक स्रोत का समाप्ति कृषि उद्योग की ओर आवेदित करने की लघि बना सकता है।

The environmental equilibrium in modern agricultural program can be brought into being by extensively following the GAPs in farming procedures. GAPs or Good Agricultural Practices are the basic environmental and operational conditions that facilitate production of safe, wholesome fruits and vegetables.

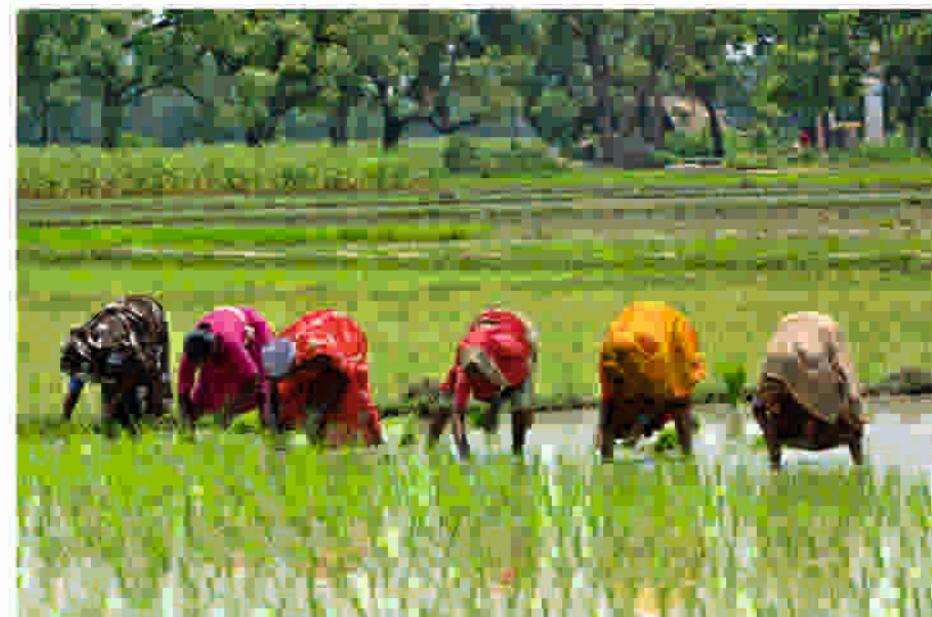
Its purpose is to provide logical guidance to bring into use the best management practices that will help in reducing risks of microbial contamination in crops, fruits and vegetables. GAPs include worker health and hygiene, use of manure, agri-inputs and water quality all through the course of production and harvesting.

United States stands tops in supplying safest food in the world. With recent media attention and outbreaks on foodborne disease and ecological disorders, Good Agricultural Practices are now implemented and treated with immense importance.

Globally, farmers, packers and shippers are initiated to take a proactive role in reducing food safety risks potentially allied with fresh produce. Being responsive and reacting towards the common risk factors as GAP outlines has a positive impact. It results in a more effective, unified response to critical concerns regarding the microbial safety of fresh fruits, vegetables and crops.

Women play a vital role in Indian Agriculture as well as Indian economy. Gradually, their significance in agricultural development is realized with their involvement in the field of agriculture, food security...

Women play a vital role in Indian Agriculture as well as Indian economy. Gradually, their significance in agricultural development is realized with – their involvement in the field of agriculture, food security, and other allied sectors. Not much before, despite women's extensive and varied participation in agriculture, their access to modern agricultural inputs was much limited compared to men. Unfortunately, their role was less highlighted and even considered as invisible workers in several aspects. Women cultivators, right through had been typically and incorrectly considered as economically inactive and that they were just supportive factors. In spite of labor intensive high women participation, the yields in economic returns were insufficient. This work pattern had been realized across the nation and was especially observed among women heading farm households with absent spouses. For that reason and more, efforts were made to evaluate women's contribution in agriculture. As a progressive approach in this direction, several programs have been started at the National Centre for Women in Agriculture and Krishi Vigyan Kendras.



Nonetheless, the associated programs are considering several solutions to bring noteworthy changes that drive towards women empowerment in fields of agriculture. With primitive farming taking a backseat, today new farming techniques are helping farm women shape their own grounds in the fields. Gradually, Women's contribution is being widely accepted on grounds of both quality work and productivity. Innovative tools and contemporary farming ideas have now paved ways for women to flourish as successful agriculturists and lead the farming community. It is also significantly observed, women's caring instinct allows her to do well in fields, at par with men. The fact of the statement lies in Women's natural drive for upholding their family's health and food. A lot of women had chosen farming to raise food for their families that is both healthy and chemical-free. Besides this, women's power of perseverance to face vulnerabilities constitute towards women's success in agri-industry. Surveys claim, with women actively participating in agriculture and leading the process, complete system of healthcare and food production in India will change for the better. As a step towards combatting the global food-security challenges, a progressive approach is increasingly being implemented worldwide. It insists on recognizing women farmers, valuing their knowledge, experience, and priorities, and encouraging their ability to bring a revolution in agriculture.



Protecting and preserving the source of our food and helping our agricultural communities thrive. We bring our global presence, deep knowledge, and diverse resources so that farms can flourish, moving our agriculture forward. By combining the strengths of our research & development, we've harnessed agriculture's brightest minds and expertise gained 40+ years of scientific achievement.

Doing something innovative is one of the best feelings in the world. It gives the feeling of being overwhelmed with so much gratitude and that we would also want to share our achievement with our people. Now HPM is in the process of manufacturing Metribuzin Technical. It is a selective and systemic herbicide that controls weeds by inhibiting photosynthesis. It is labeled to use on soybeans, potatoes, alfalfa, carrots, corn, and tomatoes. For the agriculture's well-being and the huge requirement off Metribuzin technical. Our special team is always ready to deliver bulk orders according to the desired quantity.

hpmp

Cloquintocet-mexyl Technical

Cloquintocet-mexyl Technical

VISION
TO BE A GLOBAL LEADER
IN AGRI BUSINESS

Developing Better Than The Best
Technology For Our Customers
Request The Guide

For any query please contact to
Mr. Amit Chugh
E-MAIL:
amit.chugh@hpmpulls.com

Weed management in modern agriculture requires efficient weed control technologies that are safe for the crop. Cloquintocet-mexyl is used as a herbicide safener in combination with grass-active herbicides mostly along with the herbicide clodinafop-propargyl to mitigate the herbicide's toxicity for selective control of annual grasses in small grain cereals. It improves cereal crop tolerance to the herbicide by accelerating the detoxification process of Clodinafop-propargyl in cereals. It acts at multiple sites of herbicide metabolism and detoxification pathways in plants by enhancing oxidative reactions, glucose conjugation, glutathione conjugation, and glutathione biosynthesis. It is a colorless crystal. It is used to annual grasses like *Lolium spp.*, *Phalaris spp.*, *Setaria spp.*. It provides an enabling technology which together with strong herbicide molecules has helped farmers to optimize their crop productivity through improved weed management.

hpmp

FIRST SUCCESSFUL BATCH OF
BIFENTHRIN

**DELIVERING ON OUR
OBJECTIVES THROUGH A
FOCUSSED STRATEGY**

**ACHIEVING
STRONG
PERFORMANCE
FOR
AGRICULTURE**

Congratulations Team for delivering a Successful first batch of Bifenthrin Technical. Doing something innovative is one of the best feelings in the world. It gives the feeling of being overwhelmed with so much gratitude and that we would also want to share our achievement with our people. Thank you for your good work! We don't think it would have been possible to achieve the goal without each and every one of your efforts!

HPM has developed a wide range of agricultural crop protection solutions that play an indispensable part in the lives of farmers all around the world. Every single second our research and development team works to provide farmers world-class products while preserving the environment. We firmly believe that innovation and technology are a way to help farmers achieve their goals. We believe the path to environmental sustainability will come primarily as the result of agricultural innovation. Now HPM is in the process of manufacturing Lambda-Cyhalothrin technical with the purity content of 87.5%. It is a new generation synthetic pyrethroid insecticide which has stomach and contact action on insect pests. It is used for control of a wide range of pests in a variety of crops. For the farmers' well-being and the huge requirement of Lambda-Cyhalothrin, Every single day HPM manufactures & supplies huge quantity of Lambda-Cyhalothrin in all over India. Our special team is always ready to deliver bulk orders according to the desired quantity. HPM is dedicated to supporting farmers through their crop challenges. We are a global agrochemical company focused on the agricultural solution. We prevent farming issues with best in class products, provide innovative solutions to fight pest and disease.

Our Great Minds Behind The Purity Level

87.5% Purity

450 Kg Production Daily

700 Kg Demand Production

Assuring 99.9% Consistency Across The Purity Content At 87.5%

Assuring 99.9% Consistency Across The Purity Content At 87.5%

Assuring 99.9% Consistency Across The Purity Content At 87.5%

LAMBDA CYHALOTHIN TECHNICAL PROCESS

700 Kg Demand Production

Assuring 99.9% Consistency Across The Purity Content At 87.5%

Now HPM is in the process of manufacturing butachlor technical with the purity content of 94.2%, our existing quantity of Butachlor is 3.3 MT on a daily basis and our enhancing quantity is 6 MT per day. In the future, we will produce 10 MT butachlor on a daily basis. For HPM it's a winning combination of innovation, solidarity, and performance. As researchers, our R & D team is passionate about scientific excellence because what we do today may improve the lives of farmers tomorrow. For the farmers' well-being and the huge requirement of butachlor, Every single day HPM manufactures & supplies huge quantity of butachlor in all over India. Our special team is always ready to deliver bulk orders according to the desired quantity.

HPM is one of the largest innovative agricultural input company and we aim to help make the agricultural economy more productive. Our primary contribution to agriculture is to invent and develop crop solutions that significantly improve farming methods.

BUTACHLOR Technical Process Innovation

94.2% Purity

3.3 MT Production Daily

6 MT Daily Increase

Record Breakthrough Progress Of BUTACHLOR

Assuring 99.9% Consistency Across The Purity Content At 94.2%

Assuring 99.9% Consistency Across The Purity Content At 94.2%

Assuring 99.9% Consistency Across The Purity Content At 94.2%

We are at a pivotal moment in agrochemical history. An unprecedented convergence of agrochemical knowledge, technology, and data science is revolutionizing farming now. HPM is spearheading the next generation of farming solutions around the globe. Our vision is to ensure the problems, disease, solutions and even prevention of crop challenges will move quickly and effectively transform the way of farming everywhere – ensuring the right solution for the right crop at the right time. Now HPM is in the process of manufacturing butachlor technical with the purity content of 94%. Butachlor is a herbicide of the acetanilide class. It is used as a selective pre-emergent herbicide. It is extensively used in India in the form of granules in rice as a post-emergence herbicide. For the farmers' well-being and the huge requirement of butachlor, Every single day HPM manufactures & supplies huge quantity of butachlor in all over India. Our special team is always ready to deliver bulk orders according to the desired quantity.

Butachlor Technical Process Innovation

94% Purity

3.3 MT Production Daily

6 MT Daily Increase

Record Breakthrough Progress Of BUTACHLOR

Assuring 99.9% Consistency Across The Purity Content At 94%

Assuring 99.9% Consistency Across The Purity Content At 94%

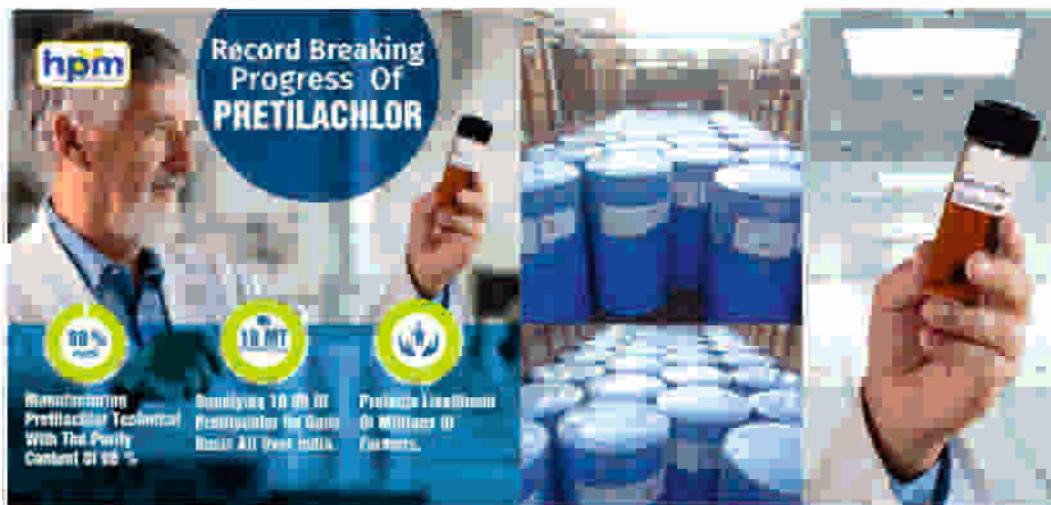


INTERNATIONAL EXPORT MARKET

Become A Global Value Leader Agrochemical manufacturer serves international opportunities with many innovative research and development activities.

HPM has set a benchmark as one of the most significant agrochemical company in India. It not only serves as the major backbone of Indian agriculture and industrial sectors, but also exports its highly innovative pesticides to 10 countries across the globe. Now HPM has become one of the most venerable agrochemical manufacturer in India. HPM is growing at a phenomenal rate owing to rising demand for chemicals in the domestic as well as the international market. HPM is manufacturing around 24 superior technical in its vigorous assembling offices alongside various modified definition of them in solo just as in blend to meet the worldwide prerequisite. We produce highly-innovative technical while maintaining its agility as a global and values-based agrochemical leader.

HPM is manufacturing pretilachlor technical with the purity content of 98%, while the other companies are providing 95% purity. Pretilachlor is pre-emergence herbicide for control of sedges and some broad leaf weeds in transplanted Rice. It provides excellent selectivity on all known varieties of rice. No adverse effect like shriveling or yellowing of crop, rather gives greening effect to the crop. It is used to control the most common weeds found in paddy crop. More than Half of the Indian farmers earn their livelihood with rice cultivation. For the farmers' well-being and the huge requirement of pretilachlor, Every single day Hpm manufactures & supplies 10 MT pretilachlor in all over India. It's a great honour for whole HPM. Transforming this idea to the real output required a good deal of efforts and various challenges came in the way. We have faced many challenges but each one of them has only strengthened us. The journey towards the process is not easy but with the support of a hard working team, HPM has reached to its record breaking manufacturing limit of producing more than TEN MT OF PRETILACHLOR ON DAILY BASIS WITH THE PURITY CONTENT OF 98%. The entire process is a learning experience for whole HPM and with the success of this project, Now we are more energized and charged up to take up new challenges which would result in the benefit of our farmer's and the environment.



HPM has led and drove the agro-chemical industry in India and abroad. In such a way, the country's driving association HPM India is finishing an impressive measure of Commandable work. For the headway of farmers association is giving them the best quality insecticides, fungicides, herbicides and plant growth regulators.



CYCLONE AMPHAN
Don't Panic, We are With You
HPM Is Deeply Saddened At The Tragic Loss Of Life, Devastation Of Property And Livelihoods By Cyclone Amphan In West Bengal & Odisha. HPM Offers Heartfelt Condolences To The Farmers And Their Families Of Those Who Have Lost Their Home And Livelihoods. We Are Here Whenever You Need Help, Not Just Now, In Your Time Of Need But In The Future As Well.

HPM is deeply saddened to see the damage caused by Cyclone Amphan. Our thoughts go out to all those affected in West Bengal and Odisha. The physical devastation, loss of crops, private properties is total and tragic; the loss of human life is immeasurable. This is a big disaster. We did not expect this kind of a disaster. No drinking water, electricity snapped, bridges cut off, communications snapped. While the agriculture land and livelihood are destroyed, HPM will continue working together with the farmers. Our field visitors will help the peoples in affected areas to overcome this tragedy. It is our hope that through our experience in supplying farmers with yield-increasing technologies and connecting farmers to modern ways of farming, we will be able to help them recover as quickly as possible.

The world has changed in unprecedented ways in the last several weeks due to the coronavirus pandemic. The concern regarding this rapidly spreading virus is well-deserved. We are all asking the same questions and having the same conversations. We are all hoping for a breakthrough in the fight against the COVID-19 coronavirus, and we all have concerns for the welfare of our family and friends, and our colleagues and communities. COVID-19, an infectious disease caused by a new strain of the coronavirus, is quickly making its way around the world. This worldwide pandemic has spread quickly from country-to-country, resulting in lockdowns, school closures, event cancellations and more. At HPM, in order to do our part in the global coronavirus prevention, we've put together a helpful infographic so that everyone knows how to handle this outbreak. We all know, the Internet is filled with information about the virus and its spread, many of it also wrong, causing panic among the people. By this blog, we are sharing some prevention methods to save yourself from being infected.



HPM Chemicals & Fertilizers Ltd., has honored the India's Most ethical Companies who recognize their critical role to influence and drive positive change in the rural community and societies around all over the India and work to maximize their Impact wherever possible. Every time HPM cares about people. HPM is committed to act with compassion, integrity, honesty and high ethics in all situations, to listen with respect to others and to value differences.

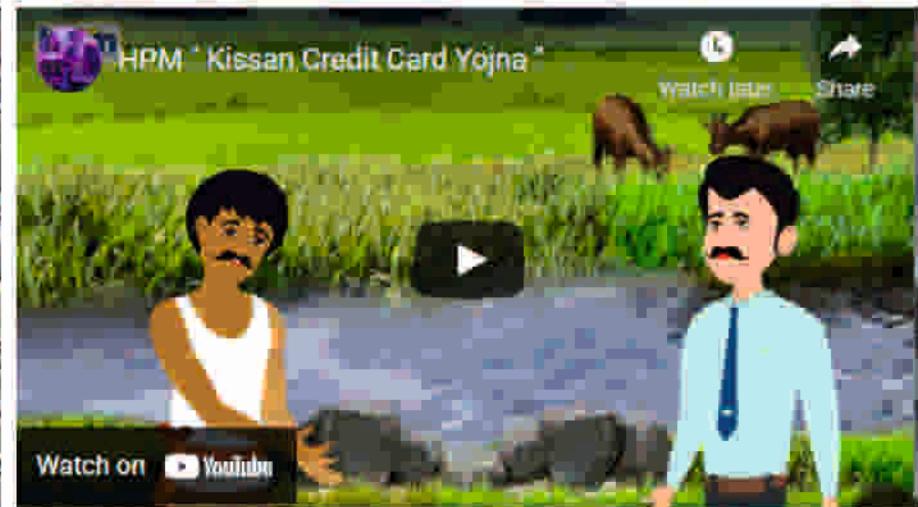
On the auspicious day of 72nd Independence Day HPM participated in "Jhanda uncha raha hamara" as sponsored Partner . It was a small tribute to our brave soldiers who fight day and night for serving our nation. They suffer the tyrannies of nature and in thunder, lightning or rain, extreme hot or cold, in deserts, mountain or seas, day and night fight continuously for the know of his nation. They sacrifice their family life, be away from his children, only to the save the life of our children. This show was to reinforce the patriotic fervor and to uphold the nation of bravery, courage and independence. In this show very talented Mr. Akshay Kumar and Miss Mouni Roy both came to promote their movie GOLD. Mr Kumar honored the soldiers family, Mrs. Tapasya Goel, executive director of Hpm also presented in this show she gave a tribute to our brave soldiers and their families. She encouraged our farmers for education and told about the benefits of revolutionary product of Hpm 24 karat . She promised each & every farmer that in future HPM will bring best quality products for the betterment of their crop. Like before Hpm will always work day and night for their farmers and their crop. ABP News was capturing the true spirit of patriotism and felicitate the brave hearts of the country on 15th August on ABP News.

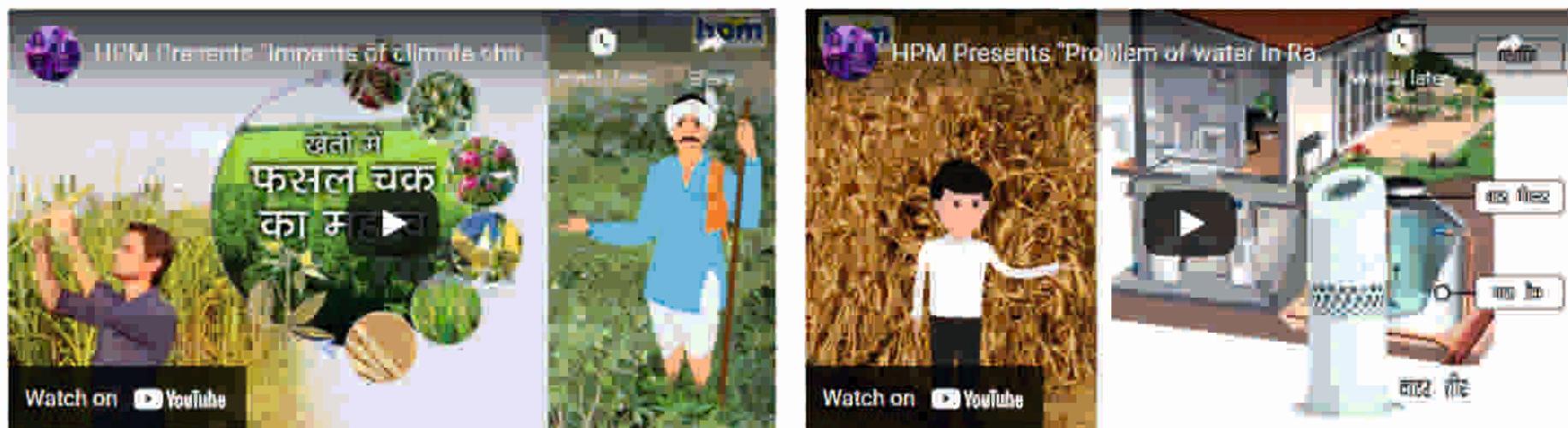
The Company is also committed to protect the global environment, to enhance the communities where people live and work. HPM runs their social projects on a solid establishment of moral standards, great administration and sound administration. The company has involved many social and promotional activities from past year which had an ever lasting effect in the social community . These particularly has laid in the upliftment in the certain section of the society.



Soil is one of the earth's most important natural resources: it underpins human food production systems, supports the cultivation of vegetation for feed, fibre and fuel, and has the potential to help combat and mitigate climate change. It is also a rich and complex ecosystem, accommodating a staggering array of biodiversity. Soils from around the globe are diverse in terms of their structure, depth, texture and fertility: these differences mean that soils provide a wide range of benefits – environmental, economic and social – to human societies in many different environments across the planet. Since soil is so vital to human life, humans have to move and manipulate it in order to utilize it. This, however, can lead to environmental problems, soil loss, and erosion.

Every second HPM thinks about farmers. HPM knows that what the farmers crops mean for them. At HPM, we want make agriculture better for farmers and families. Like our previous work, we are doing more than treat agricultural problems. For farmers wellbeing and farming related problems, HPM presents many Agri-Solution Videos. With the help of the video our farmer brothers can easily get information about the modern technologies and farming methods.





How is Irrigation Important For Agriculture ?

- Saves your water and time
- Reduces weed growth
- Improves plant growth
- Preserves soil nutrients

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Irrigating crops is an agricultural practice that goes back thousands of years in human history. Despite significant advances in technology over time, the basic purpose of irrigation is much the same: to supplement water available through rainfall for the purpose of increasing crop yields and crop quality. As we know water management is becoming an increasing concern in agriculture, whether that's dealing with too much or too little water. This is highlighted by recent events such as last year's drought, flooding and depleting aquifers. Finding tools and methods to better manage water is critical to the future success of farming, not just in India but also globally. In our previous blogs, we told the pros and cons of different types of irrigation system. Today we will talk about why it is necessary in agriculture.

In the next 35 to 45 years of world food production will need to double to meet the demands of an increased population. Ninety percent of this increased food production will have to come from existing lands & seventy percent of this increased food production will have to come from irrigated land. Without irrigation, farming is very limited & if the rainfall decreases to less than 30cm, agriculture becomes impossible without irrigation. It increases crop yield. It protects from famine. It helps to cultivate superior crops with the water supply as per the need of the crops. Insufficient, uncertain and irregular rain causes uncertainty in agriculture. The period of rain is restricted to only four months in a year, June to September when the monsoon arrives. The remaining eight months are dry. There is some rainfall during the months of December and January in some parts of the country. Even during monsoon, the rainfall is scanty and unpredictable in many parts of the country. Sometimes the monsoon delayed considerably while sometimes they cease prematurely. This pushes large areas of the country into drought conditions. With the help of irrigation, droughts and famines can be effectively controlled. Since India has a tropical and sub-tropical climate, it has potentialities to grow crops on a year-round basis. However, since 80% of the annual rainfall is received in less than four months, multiple cropping is generally not possible. Provision of irrigation facilities can make possible the growing of two or three crops in a year in most areas of the country. This will considerably enhance agricultural production and productivity.

Irrigation helps in stabilizing the output and yield levels. It also plays a protective role during drought years. Since both income and employment are positively and closely related to output, prevention of fall in output during drought is an important instrument for achieving stability of income and employment in the countryside. Irrigation has enabled many states to acquire 'partial immunity' from drought. Irrigation confers indirect benefits through increased agricultural production. The employment potential of irrigated lands, increased production, helps in developing allied activities, means of water transport, etc. are the improved income of a government from agriculture. Availability of regular water supply will increase the income of farmers imparting a sense of security and stability in agriculture.

previous blog, we discussed the cons and pros of sprinkler irrigation. Our today's topic is Drip irrigation. This irrigation is transforming the lives of millions of farmers across the world, enabling higher yields to be produced from any land, while saving water, fertilizer, and energy. It is sometimes called trickle irrigation and involves dripping water onto the soil at very low rates (2-20 liters/hour) from a system of small diameter plastic pipes fitted with orifices called emitters or drippers. It is the most efficient water and nutrient delivery system for growing crops. It delivers water and nutrients directly to the plant's roots zone, in the right amounts, at the right time, so each plant gets exactly what it needs, when it needs it, to grow optimally. Water is applied close to plants so that only part of the soil in which the roots grow is wetted, unlike surface and sprinkler irrigation which involves wetting the whole soil profile. With drip irrigation water applications are more frequent (usually every 1-3 days) than with other methods and this provides a very favorable high moisture level in the soil in which plants can flourish.



Drip Irrigation is today's need because Water – nature's gift to mankind is not unlimited and free forever. World water resources are fast diminishing. It is totally automated, efficient and long-life system which ensures saving in water, early maturity and a bountiful harvest, season after season, year after year. Apart from all this, savings in labor and fertilizer costs.



Drip irrigation system delivers water to the crop using a network of mainlines, sub-mains and lateral lines with emission points spaced along their lengths. Each dripper/emitter, orifice supplies a measured, precisely controlled uniform application of water, nutrients, and other required growth substances directly into the root zone of the plant. Water and nutrients enter the soil from the emitters, moving into the root zone of the plants through the combined forces of gravity and capillary. In this way, the plant's withdrawal of moisture and nutrients are replenished almost immediately, ensuring that the plant never suffers from water stress, thus enhancing quality, its ability to achieve optimum growth and high yield. Smaller amounts of water applied over a longer amount of time provide ideal growing conditions. Drip irrigation extends watering times for plants and prevents soil erosion and nutrient runoff. Also, because the flow is continuous, water penetrates deeply into the soil to get well down into the root zone. Because drip irrigations are so effective, there is less chance of erosion, with very little runoff ending up in area streams and rivers. Drip Irrigation not only delivers greater ROI compared to other irrigation methods, but it also gives farmers an efficient and simple way to operate their farm.



Sprinkler Irrigation

A sprinkler system is a very common method for watering fields. These sprinklers are convenient, but also expensive to install. Before you select this type of watering system, consider the pros and cons.



Nurture



Protect



Care



We all know that irrigating your lawn is important to maintaining a healthy farm in the hot, arid summer months. There are many different options for watering though. A sprinkler system is a very common method for watering farms and fields. Sprinkler irrigation is a method of providing rainfall-like irrigation to the crops. Water is distributed through a system of pipes usually by pumping. Spray heads at the outlets distribute the water over the entire soil surface. It is a type of pressurized irrigation that consists of applying water to the soil surface using mechanical & hydraulic devices that simulate natural rainfall. Let's take a look on Sprinkler irrigation. In this blog we will get information about the advantages and disadvantages of sprinkler irrigation.

Whenever use sprinkler irrigation keep every advantage and disadvantage in mind. No matter what irrigation method you choose, the whole idea is to get the right amount of water. Too little and your crop doesn't have enough to survive the heat, too much and it will wash away precious top soil, erode root systems and waste water. A sprinkler system makes it easy and convenient to water your field, flowers and plants just turn them on and walk away. You can use a sprinkler system to water a wide area of different types of crops and you can usually adjust how large or small an area receives water. You can also use this type of system to dispense chemicals and fertilizers needed by your field. The biggest advantage to a sprinkler system is that it can cover large areas with limited effort on your part. If it's automatic you won't even need to open the valve or close it when the watering session is done. However, with automatic systems make sure to monitor rainfall levels so as not to overdo it.

HPM Presents Sprinkler Irrigation

Watch on YouTube

hpmpresso

Is flood irrigation beneficial for farmers or not ??

First Think Then Choose Because your crop is precious...

The most inefficient method of irrigation as only 20 to 25% of the water is actually used by plants or crops.

Most of the water would be lost as a result of runoff and evaporation.

In this method, water distribution is uneven and you cannot expect uniform crop growth.

Water used in flood irrigation is more or less "uncontrolled" and is applied in large amounts to successive areas.

Watch on YouTube

HPM Presents Flood Irrigation

प्रवाहित सिंचाई
या फल इटीगेश

Watch on YouTube

Flood irrigation is where water is applied and distributed over the soil. Flood by gravity. It is by far the most common form of irrigation throughout the world and has been practiced in many areas virtually unchanged for thousands of years. It is widely utilized and therefore a well-known system which can be operated without any high-tech applications. In general, it is more labor intensive than other irrigation methods. Proper design of Flood irrigation systems takes into account the soil type (texture and infiltration rate), slope, and levelness of the field, stream size, and length of run. Leveling the fields and building the water ditches and reservoirs might be expensive, but once this is done, costs are low and the self-help capacity is very high. HPM Chemicals & Fertilizers Ltd., appointed a special management team which gives knowledge about the irrigation method to the farmers. Training and development videos and e-/web-based learning methodologies about the irrigation, being widely used by our team. Our videos and education drives proves fruitful for the farmers and making them ready for the coming agricultural challenges.



As one of India's leading nutritionists and winner of the prestigious 'nutrition award' from the Asian Institute of Gastroenterology, Rujuta Diwekar was voted as one of the 50 most powerful people in India by People magazine in 2012. Don't count the calories in your food count the life in them. Treat the food you eat with respect. To abet you in the process of attaining equilibrium between your life & health Rujuta Diwekar, a nutritionist by profession with proven credentials in the field, renders consultation and guidance to put all such maladies in the rear view mirror.

Born in a typical middle-class Maharashtrian family, She continues to learn, it's never ending she says. Ms. Diwekar is India's first celebrity nutritionist with a celebrity clientele. In 2016, Pharma Leaders Power Brand, a title developed by Pharma Leaders, nominated Rujuta as top six names, for the coveted India's Most Promising Face in Diet & Nutrition 2016 at Satya Brahma founded annual healthcare meet, the 9th Annual Pharmaceutical Leadership Summit & Pharma Leaders Business Leadership Awards 2016.

On this International Yoga day Ms. Rujuta participated in the ABP Yoga Sammelan, the whole programme was sponsored by HPM Chemical & fertilizers. In this Yog Summit Ms. Rujuta Diwekar & the executive director of HPM, Ms. Tapasya Goel joined hand and spreaded awareness towards yoga. Both encouraged the women empowerment. With this initiative Ms. Tapasya goel & Ms. Rujuta Diwekar did something very important for everyone. The main purpose of this programme was to spread awareness towards yoga in people. This programme proved to be a massive crowd puller and was a great initiative for yoga, because yoga is a very basic applied what she learned about nutrition and exercise science to the Indian way of life in a sensible and practical way.

An obsession with industrial progress has caused man to lose sight of the tenuous ecological balance. The consequences of mindless actions are clear now. As we close in on newer scientific discoveries, we are inebriated by our own success. Despite understanding the consequences of our follies on the environment front, we are doing too little, too late. Environmental sustainability cannot be recklessly thrown to the wind. We are living undoubtedly on a polluted earth. Considering the manifold benefits of trees, including that they release oxygen into the air, absorb unpleasant odours as well as harmful gases, protect us from dangerous ultra-violet rays, provide us with food and the pivotal role played by trees in preventing soil erosion, maintaining ecological balance and most especially in lessening the effects of global warming, the HPM Chemical & Fertilizers Unit, conducted tree plantation drives. Over the last one and a half years, HPM has planted saplings in all over India.



hpm

WORLD ENVIRONMENT DAY

After addressing the growing problem of pollution in India, the company launched a Green Nation Clean Nation Campaign. Under this campaign, company planted 10000 trees and made everyone aware of tree plantation. This campaign had a good impact on the environment.

Today, one of the biggest problems in the country is the problem of Pollution. It has created a long lasting Impact on every citizen. After addressing the growing problem of pollution in India, the company launched a Green Nation Clean Nation Campaign. Under this campaign, they planted 10000 trees and made everyone aware of tree plantation. This campaign had a good impact on the environment. After this campaign, there will be great relief in Pollution which will be beneficial for the entire society. Planting one tree means planting a whole living system. The experienced people of the company planted the saplings. Tree plantation is a harbinger of prosperity. Plants eliminate the pollution and are beneficial for the health, too. Planting one tree means planting a whole living system. Our dedicated tree plantation Campaign worked toward communicating this very idea to masses. This initiative has celebrated all over in India.

Time to time using distinct socio-cultural tools, like poster exhibitions, lectures, presentations, we sensitize masses on scientific, social, cultural and spiritual importance of trees. Description of this multifaceted role of trees is enough to generate that warmth within the hearts of peoples. And then we trained peoples in the art of planting and caring for trees. Annually the CMD Mr. Ashok Aggarwal Ji, plant tree sapling at his official residence. And to support this day whole HPM Team do the same and plant tree saplings. It is to promote people to change their attitude towards the environment for making a safe future.



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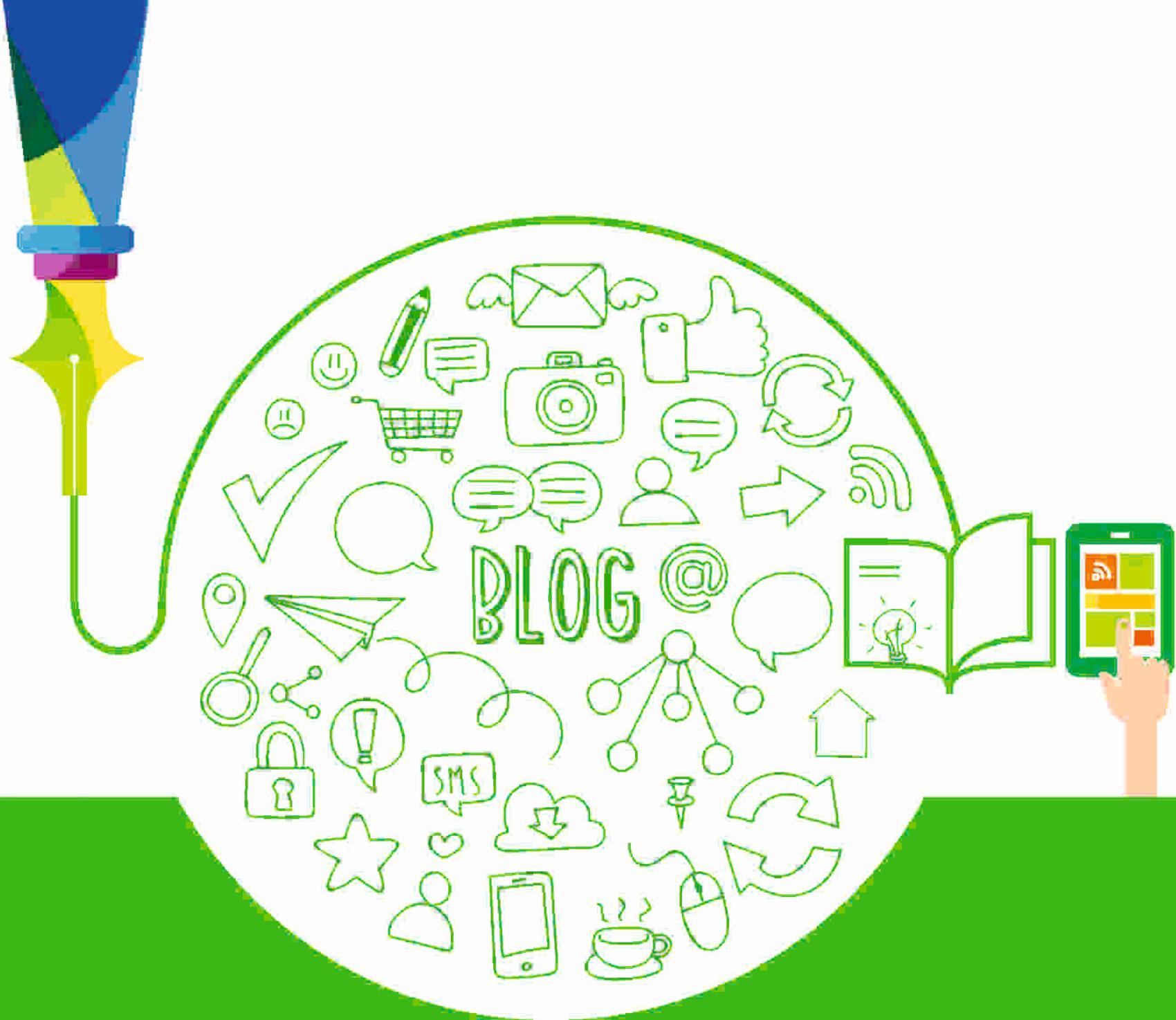
WORLD ENVIRONMENT DAY

COMING SOON 5 JUNE 2016

To curb water pollution HPM is treating 70,000 lit. waste water daily through unique project through new technology by MULTI EFFECT EVAPORATOR (MEE) treated water is being used in irrigation, staff washing, cooling tower and zero effluent.

More than half of the human population knows what is pollution, but we are still not ready to face its damaging consequences. Environmental pollution is one the greatest challenges that the World is facing today. It is increasing with every passing year and causing grave and irreparable damage to the earth. Environmental pollution has its own causes, effects and solutions. Environmental problems may determine civilizations to fall, societies to perish, and races to become extinct. Pollution is acknowledged as being a grave risk to many organisms. Human health can be affected in a number of ways. It is high time for us to take the "right" action towards saving the earth from major environmental issues. If we ignore today, these ill effects are sure to curb our existence in the near future.

The main goal of HPM, behind this environmental protection plant is to treat highly generated TDS, TSS, BOD, etc in water. The utility model discloses a multiple-effect evaporation waste water treatment system which comprises of least seven effect evaporators in series connection, wherein an air outlet of each effect evaporator is connected with a separator, an air outlet of each effect separator is connected with a heat source part of a next effect evaporator, and an air outlet of a last effect separator is connected with a cooler. The multiple-effect evaporation waste water treatment system is characterized by further comprising a water ring vacuum system, wherein the water ring vacuum system is mainly formed by a vacuum pump and a condensation tank, an air tube pipeline of the vacuum pump is connected with the cooler, and an air outlet of the vacuum pump is connected with the condensation tank. According to the multiple-effect evaporation waste water treatment system, by means of arrangement of the water ring vacuum system, decompression evaporation separation is achieved, boiling points of materials are reduced, and energy consumption of the whole system is reduced. At HPM, we don't dump waste water into rivers, lakes, ponds, and streams. These water sources feed major crops and food becomes contaminated with a variety of chemicals and bacteria, causing rampant health problems. To avoid water pollution HPM is treating 70,000 lit. waste water daily through new technology by MULTI EFFECT EVAPORATOR (MEE). Treated water is being used in plantation, plant washing, cooling tower with zero discharge. At HPM, we prioritize controlling environmental impacts during the research and production processes, and implement various measures to fulfill this goal. HPM, is engaged in proactive environmental protection activities. We are progressing in areas of environment, with a medium-to-long-term perspective to fulfill our responsibilities. Throughout HPM, our employees are making voluntary contributions in Environment safety. In HPM now we are sharing best practices & solutions to ensure continuous improvement in environmental pollution. To fulfill our social responsibilities as a global agrochemical company, HPM has set concrete numerical targets to combat environmental issues and reduce waste.



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