

FIVEFOLD PATH MISSION

presents

BRAINSTORMING CONFERENCE IN CO-OPERATION  
WITH PLANNING COMMISSION, GOVERNMENT OF INDIA



BRINGING HOMA ORGANIC FARMING  
INTO THE MAINSTREAM  
OF INDIAN AGRICULTURE SYSTEM



DR. ULRICH BERK, BRUCE JOHNSON (ED.)

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**PROCEEDINGS**

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**MAHARASHTRA**

**DR. ULRICH BERK – BRUCE JOHNSON (ED.)**

# **BRINGING HOMA ORGANIC FARMING INTO THE MAINSTREAM OF INDIAN AGRICULTURE SYSTEM**

## **PROCEEDINGS**

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# FOREWORD

**DR TEJ PARTAP**

**Vice Chancellor**

**CSK Himachal Pradesh Agriculture University, Palampur, HP**



Organic agriculture is a two dimensional opportunity; one, for developing organic agribusiness both for export and domestic market by focusing on organic production of niche products. And second, more important is the potential of organic agriculture as an important livelihood opportunity for small resource poor farmers with low input costs and quality food production. Organic agriculture also holds last hope to the farmers facing debt and suicide conditions. Accordingly, there are two kinds of organic farmers; one the large estate owners, contract farmers associated with corporate sector and doing organic farming as agribusiness opportunity. There are those with small land holdings of rain fed marginal farmlands, looking for options which reduce their dependence on external inputs, reduce cost of cultivation and provide food and income security using on farm resources and the family labour.

The small farmers have no access to credit, one or two animals, no irrigation facilities, no access to adequate quantity of biomass and composting. The resources available for organic farming with them are; cow dung and urine, biomass from few trees, farmland for growing crops. With this resource base at hand, farmers look for technological options for enrichment of soil, management of temperature, conservation of rain water, maximum harvesting of sun energy, self reliance in inputs, maintenance of natural cycles and life forms, integration of livestock of the family with farming. Organic agriculture offers farmers better options to achieve these.

Organic agriculture implies that farmer grows his crops without using chemical fertilizers and pesticides, by producing manure, using organic wastes available and pest control methods in his own farm, provides for adequate water by adopting rain water harvesting, and ultimately provide a conducive atmosphere for effective growth of plants and animals and good working conditions.

Among the options available is Homa Farming, with Agnihotra as its basic tool. It is known to purify the atmosphere, removing pathogens which are the causes of several crop diseases. It involves performing regular Vedic rituals at sunrise and sunset for few minutes. Though Vedas give many definitions of sunrise, but one of the definitions, explaining its value for nourishing the vegetable kingdom, is used as the basis of Homa farming. It is further complemented by Om Tryambakam Homa, a continuous exercise of chanting mantras for several hours on the farm. Homa is a pyramid fire technique from ancient Atharva Veda. The technical term *Yajnya*, denotes a process of removing the toxic conditions of the atmosphere through the agency of fire. The purified atmosphere is said to make beneficial effects on plants in the influence zone of the farmland, livestock and farmer's family. The purification of the atmosphere through Homa is said to lead to an intensification of life energy (prana). It is postulated that crops under Homa Farming develop cylindrical veins of vascular tissue with an above average diameter, permitting water and nutrients to move faster, which support better growth and productivity.

The use of this ancient knowledge of Homa pyramid fire in farming, revived in late 20<sup>th</sup> century in Latin America as well as in India by Shree Vasant Paranjpe and his followers is now spreading

among the farming community. Homa pyramid fire has a strong potential for increasing the yield and quality of crops, food grains, vegetables and fruits, alike. It also seems to be regulating insect infestation and fungal disease in crops in an ecologically sound manner. Soil characters with significant effect on yield such as plant availability of nutrients appear to be improved. There are now definite examples of Homa Farming experiences and success stories among the farmers in India.

The scientific community, however, may have lot of apprehensions about the scientific value of this technique and reservations about promoting Homa as an effective organic farming technology. It is not without reason, very often, scientific community becomes constrained by the thought process since principles of ecological science are rarely applied in agriculture science, as much as these should have been. Ecological principles offer an opportunity to widen the horizon of thinking and reasoning to give space to the value of ecosystem energetics. Within this domain also come value ecology and cosmic energy and their implications to agricultural ecosystems. It is a science which we have still not ventured in. While chemistry dominated agricultural sciences in the 20<sup>th</sup> century, it is time that fundamentals of physics of agriculture are explored and used to the best of their value in the 21<sup>st</sup> century. And organic farming, taken out from Vedic courses, falls under this domain.

Homa Farming today suffers from lack of informed knowledge and experiences, scarcity of experts and virtual absence of institutional support. While it will be useful for organic farmers to apply it as one of the complementary methods together with other organic practices on their farmlands, emphasis on R&D in Homa Farming would help clear doubts of many who maintain their reluctance to promote it as a potential organic farming option.

Under the back drop of such circumstances, I appreciate efforts of the organizers of the meeting to create a platform for sharing knowledge and experience with respect to Homa farming. Participants to the meeting have shared lot of useful information, both about technological processes and experiences of impacts on various crops and farming conditions. This rich information needs to be made available widely. For that I appreciate the efforts of Dr Ulrich Berk and Bruce Johnson in putting together the information in the form of a publication. It will be, I am sure, of much value to researchers, extension workers and farmers as well as to those keeping interest in organic agriculture and Homa Farming.

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April 18, 2009

# FARMERS' EXPERIENCES WITH HOMA ORGANIC FARMING

## INDIA



# EXPERIENCES WITH HOMA ORGANIC FARMING IN MANGO BELT, UP

**Ramesh Chandra Tiwari**

**Village: Khanpur Sirauli, Block: Hasanganj, Dist: Unnao, UP**



My name is Ramesh Chandra Tiwari. I am a farmer from village: Khanpur Sirauli, Block: Hasanganj, District: Unnao. I have a 12 hectares farm in 3 hectares of which I have planted mango (variety – Dasher, Lucknow Safeda and Chousa), Bel on 0.75 hectare, Bananas (Variety – Grandnan) and Guava (Variety – Lalit and Elahabadi Safeda) on 0.5 hectare and the remaining land is used to grow wheat and other types of grains. Through this letter I want to share a type of farming practice which is cheaper and pollution free. I had grown my mangoes by using this practice called Homa Organic Farming. This is a very simple type of farming which comes from Rig Veda and has been successfully practiced in countries like Chile, Peru, Canada, Germany, Holland, America and many other different countries. I have been guided by Dr. R.K. Pathak who is the Chief Consultant of National Horticulture Mission to practise this type of farming.

By using this method I have not used any fertilizers and pesticides from last four years. I have performed Agnihotra and sprayed Biosol which is a mixture of cow dung, Homa ash, vermicompost and water. Before the flowering season for mangoes I sprayed Biosol four times in September and November. I also sprayed Jivamrut on mango trees. From my experience of past four years, first year the yield was less but in second year yield was 50 percent more (30 tonnes), third year was 40 tonnes and this year 65 tonnes of yield is expected but due to storms and bad climate 15 tonnes of mango yield was lost. So in this way, even without using any chemical fertilizers and pesticides, I will have 50 tonnes of mango yield in my 3 hectares by organic methods. In nearby areas the mango yield is much less as compared to my farm (average 10 tonnes per ha). I had seen that performance of Agnihotra has helped to control pests and weeds on my farm and also there is continuous increase in the production each year. My farm is healthy without any disease and other farmers who are using chemicals have problems with diseases. Also my neighboring farmers are getting benefited because of my farming methods. I had the highest production of mango in the area of Hasanganj which is in the mango-growing belt.

By performing Agnihotra and using Agnihotra ash, Mr. Rajkumar Awasthi had higher production of potatoes, rajma and barseem (cow fodder). I had also seen that diseases can be cured by practice of Agnihotra. I have awesome results just by performing Agnihotra at sunrise and sunset and four hours of Om Tryambakam Homa. Pest control is easier and cheaper by this method. By mixing three handfuls of Agnihotra ash in water and putting this mixture in the sun for three days and spraying them on plants, this is more effective way to control pests than by spraying chemical pesticides. We should also know that using chemicals for growing mangoes may help mangoes look good from the outside but actually it's harmful to eat. But growing mangoes by Homa Organic Farming methods will produce a better mango in taste, texture and without any disease.

In the end I propose to all that this method which is developed by Shree Gajanan Maharaj and Shree Vasant Paranjpe can be used in farming by all farmers as it has good effects on health and can produce good quality of yield.

# EXPERIENCES WITH HOMA ORGANIC FARMING IN SERICULTURE & FLORICULTURE

Tejasvi Naik

Village: Modaga, Dist: Belgaum, Karnataka



Organic agriculture is complete when a farmer grows his crop without using chemical fertilizers and pesticides, by producing manures using organic wastes available and pest control methods in his own farm, provides for adequate water by adopting rain water harvesting, providing unconventional power generation and ultimately provide a conducive atmosphere for the effective growth of plants and animals and good working conditions, all this available by AGNIHOTRA HOMA FARMING TECHNIQUES.

These words come out of my experiences in agriculture from the 12 years I have been a farmer. Having looked at it with wide open eyes and ears.

I am a Textile engineer. Started sericulture in 1996 in 1.5 acres extra land available in my factory premises. In the first year I could get good crops as the area was new to it. In the next couple of years there were crop losses due to diseases to the silk worm. That's when I woke up to find the reasons. I was told that the mulberry leaves in the farm had become papery and that I should be adding FYM (farmyard manure) in large quantities. By this, the quality of leaves improved and I got the first taste of organic matter doing the trick. This prompted me to reduce chemical inputs and increase organic instead. It was good but proving costly, as also the crop loss due to contamination of disease causing bacteria and virus did not end. Water was in scarcity. I was forced to buy water and after a lot of research I could have a rain water harvesting and well recharging in place. This gave me a great boost and I decided to expand my sericultural activities. By now I had also taken up a course in green house technology and started a green house to grow carnation flowers. Excellent growth with record yield and no pest attack were its characteristics in the first few years wherein I recovered the investment done.

Expansion in sericulture of 2 acres of mulberry plantation was undertaken and till the plants grew, I took an intercrop of cauliflower using pesticides. The crop was good but believe me I lost the mulberry leaves of that plot for a year due to the effects of these pesticides. The moment a silkworm ate that leaf it vomited. This continued for almost a year. Terrible was the residual effect of the treacherous pesticide. That day I decided to go organic.

Second expansion of another 2 acres was undertaken and again I took an intercrop of cauliflower. This time without using any chemical fertilizers or pesticides. I was amazed to get a fairly good yield. I wanted to market it as organic, so I located Mr Abhay Mutalikdesai who was then running an organic food club. When I and my wife Asha, who is a true life partner to me, being with me in the toughest of periods and bearing these experiments in agriculture which I was going through, visited Abhay Desai's farm to sell our product, here I was introduced to Homa Organic Farming technique. We saw the Agnihotra Resonance Point, performed Om Tryambakam Homa and after knowing the effects, it was EUREKA!!

An inner voice prompted "all this just for me to understand the purpose of my life to be."

I STARTED DOING AGNIHOTRA in my green house and in a few weeks time it showed results. First the birds moved in, then the predators to destroy the attack of whiteflies on gerbera plants in the green house. The Resonance Point was then set up by Mrs Anne Godfrey, facilitated by the God sent person, who introduced me to this great treasure – healing technology, Mr Abhay Mutalikdesai. From then on there was no stopping us. Results flowed one after the other. Great thoughts, great atmosphere was what I felt and so did all the visitors to my farm. Here are some of my experiences which I want to share with you, with much gratitude to Shree Vasant Paranjpe whose gift to the farming community is immense.

1. In the first three months of starting Agnihotra on the farm, I noticed a lot of birds in the farm. They fed on pests in the green house and also later made my farm their home and started nesting giving a new generation of birds. Distinctly visible are the greater coucal (bharadwaj), asian koel, parrots, love birds, owls, sparrows, crows, cranes, wood pecker, pigeons, bulbuls, babblers, fly catchers, robins, baya weaver, kingfishers, mynas, and lots more and in pairs.
2. Once all of a sudden, I noticed a hundred odd garden lizards on the casuarina trees adjoining the green house. I failed to understand this phenomenon. I also killed one as it was entering my sericulture rearing shed mistakenly thinking that they had arrived to eat the silk worms. Few days passed and then all of them disappeared. The lady worker reported that day “all gerbera plants are free from white fly attack.” No white fly, No garden lizards? Such was the effect of Agnihotra.
3. My sericulture crops which suffered due to diseases gradually improved. Last two years there have been NO crop failures. Agnihotra?
4. Leaf quality, size of leaf improved tremendously and it showed on the yield/acre. Agnihotra indeed.
5. In the last one year I have regularly obtained 80kg per 100 dfls (disease-free layings). That is 30% more than the state’s average and 20% higher than any good sericulturist. More Agnihotra!
6. Powdery Mildew is a common pest on mulberry leaf. But my farm is free from it by the presence of the Lady bird beetle (*Scymnus nubilus*) which are in abundance acting as a natural predator. It is also found in larger quantities in the garden adjoining the Agnihotra kutir. No mealy bugs too. Unbelievable Agnihotra...
7. Number of earthworms in the farm have increased and you can see herds of millipedes. I don’t know what they are doing there. Men at work? Agnihotra???
8. I have reports from the CSB (Central Silk Board) that in one of the crops of hybrid silkworms, (csr2 X csr4), the pairing was so great that it yielded 62g eggs/100 cocoons as against the average being 26g and a good yield is around 40g. Amazing Effect.... Agnihotra
9. In my latest crop, the pupa was so full of vigour and vitality. The scientist at the grainage at CSB’s Malavalli unit informed that there will be three pairings taken from each of the male moths. Average is one pairing and good being two. Result is awaited on the actual performance. Agnihotra all the way.

10. My cocoons are purchased instantly in the auction fetching better rates. Reelers have expressed higher silk content in my cocoons, so they bid for a higher price. Shortly I will be having a tie up with a quality reeler from Sirsi for reeling cocoons and with Malavalli grainage for my seed cocoons. Customer confidence made possible by Agnihotra results.
11. During the time when woolly aphid attacked sugarcane crop, my neighbour informed me it was visible that his 2 acre sugarcane was unaffected when the whole village had the problem. No boundaries for Agnihotra.
12. No labour problems. Brilliant ideas in allocating jobs with responsibilities, ensuring quality work. Harmony and vision through Agnihotra?
13. My Manager who does the regular Agnihotra on the farm and also consumes the ash has his Diabetes well in control. You will not believe that I use only Agnihotra ash as antiseptic for all cuts and bruises. No Dettol please! Found the healer!! Agnihotra the saviour!!!

# EXPERIENCES WITH HOMA ORGANIC FARMING IN CASHEW NUT

**Vyankatesh Kulkarni**

**Village: Sajiwali, Tal: Shahapur, Dist: Thane, Maharashtra**



First of all, I want to congratulate the Homa Therapy teachers for all the work you have done all over the world and in India. I am Indian, and still I have to admit that I could not do that dedicated work you are doing here.

We came across Gurudev Shree Vasant Paranjpe between 1998 and 1999. From our discussions with Him, what we realized was, the cow is an important part in farming and this is the reason why the cow has been given an important place in our scriptures and culture. Another point we found out from Him was that for healthy farming the environment should be healthy and to achieve this a simple procedure of Agnihotra is advised. If we use the correct combination of cow and Agnihotra then we can achieve the same result in farming as our forefathers enjoyed.

I stay in Mumbai and I have a farm of two hundred acres, 80 kilometers away from Mumbai. I think that this ancient technology is more reliable as it has been used for the last three to five thousand years. I strongly believe there is no other technology which is economical and at the same time gives healthy and better produce. In this technology there is no chance of a farmer becoming bankrupt.

We started Homa Organic farming with the help of cows from 1998 so we have used this technology for approximately 10 years and this is the only solution for farmers now.

Then we selected five villages around our farm and tried to translate this Agnihotra technology to the farmers of these five villages. We told the farmers: we will give you all the inputs for the farming and we will give you 20% extra for your produce. Only you have to keep at least one cow on your farm and perform Agnihotra regularly. Starting from 5 villages, now in 2008 we have come up to 23 villages and in the next years we want to increase this number to 50 villages. We want to show the world that whatever these 50 villages are producing is all by using the technologies on which mankind was surviving for more than 5000 years.

If we compare my produce like cashew, I have cashew nut trees which are 5 to 6 years old. I have traveled to Sindhudurg, Goa and Kerala. There 5 to 6 year old trees give 2 to 3kg of cashew nuts. But my trees give more than 5kg per tree. This means I produce much more than others by using this technology. I have 8 to 9 year old Kesar mango trees. Kesar Mango trees around my area give 50 to 60kg of produce. But in my farm I get 90kg per tree. This makes me believe if any farmer uses this technology, then he will earn decent profit.

Secondly, for aromatic crops, I have planted patchouli and vetiver. The yield I get from my farm is higher than the yield available from other neighbouring farms. There is a difference of 20%.

From my personal experience I would like to repeat this is a very good farming technology and all farmers should follow this.

By eating these Homa therapy farm products I am healthy and I do not fall sick. There is a reason behind this; there is a science which has been practiced for the last 5000 years, not a science which was developed in the last 50 years. This old science is the best science and these 50 villages I want to present to the world.

There are many people in Mumbai who are rich. These people are in such a position that their decisions effect nearby areas, thousands of human beings in the country. These people, the decisions makers, the leaders of the society, have wrong eating habits, they fall sick and their work efficiency becomes less. They are worried about their health, so they are cautious about the nutrient content of their food but they are not concerned about the costs of the food. So we would like to provide food to these people first. Whatever is produced in these 50 villages, these types of people will be my clients. This type of people should be given Homa Organic Farm produce for eating.

During development and after these 50 villages are developed we will make our own software. Villages from any part of India will come together, come to us. We will have training centers to teach these farmers. We will teach them, tell them how to fill their farms. Their Homa farm produce which will be of international standard will be exported to Japan, China, Europe, America. We will teach them which certificate is required and under which certificate these goods can be exported. Our training institute will take care of all this. You follow our Homa farming technology. You may be located in any part of India. We will pay you 20% extra for farm products. After we succeed in 50 villages we can go all over India with Homa Organic Farming technique.

# EXPERIENCES WITH HOMA ORGANIC FARMING IN KARNATAKA

Abhay Mutalik Desai, B.E. (Chemical)  
Village: Sutagatti, Dist: Belgaum, Karnataka.



Before I share my Homa Organic Farming experiences, I pay my due respects to **Shree Vasant Paranjpe**. Some people and scientific community in particular now many times put a question to me **why Homa Therapy with organic farming and not just organic**. Before I answer this question I come to a basic question then asked to me in 1996-97. **'Why organic farming?** We cannot grow more or equivalent to chemical farming by adopting organic farming. If you lose your crop or make losses by doing organic farming we are not responsible.' This was a popular stand of the agricultural scientists in Karnataka. **I did not start adopting organic farming principles in 1990 because I met any teacher or read any books. Our lives were destroyed by doing chemical farming for 30 years. We had no money to apply chemicals to the degraded soil and not enough water to quench the thirst of the chemical crops in summer.**

My father started his farming career in 50 acres from 1956 at village Sutagatti, Belgaum, Karnataka. 'Buy One and Get One Free' is not a slogan of today. In 1956 my father got a few bags of ammonium sulphate FREE from the agricultural department. He was a pioneer grower of paddy with chemicals. Chemicalised farming based on factory made chemicals had a romantic beginning. In 15 acres he got 400 bags of paddy. His initial success made him an easy fall of prey to the charm of chemical farming.

He was encouraged based on the persistent idea that a higher use of external chemical inputs will lead to higher outputs. In 30 acres he was growing about 2000 tonnes sugar cane. His index of success was maximum yield per acre at any cost.

But after 1974 things started changing, deforestation, decreased rainfall and water scarcity in summer. Higher use of chemicals resulted in degradation of soil affecting soil health and life of the diverse flora and fauna. Mismanagement of the soil resulted in erosion of topsoil, lower crop response and reduced productivity against higher chemical and energy inputs, water and labour needs. The soil was dying and chemical farming became a painful experience by 1989, sugarcane production reaching the record low of **350 tonnes in 25 acres**.

The bitter experience of chemical farming opened our eyes and forced us to adopt well planned strategies in agriculture. My agricultural career started in 1990 and we implemented the following:

- a) Non burning of any trash and mulching to control weeds and save labour
- b) Efficient usage of water and reduced chemical fertilizers by fertigation through sprinklers only.

The changes we initially adopted were from a mere **economic** outlook, but very soon we realized we were following life sustaining strategies and methods. The reduced usage of chemicals increased the soil fertility and the mulching created a favourable microclimate. By 1995 the whole farm was covered with abundant natural vermicasts indicating the earthworm activity at its peak. The earthworm vermicasts in soil along with trash helped to maintain soil moisture for longer period in summer and enhanced the crop yield. In this improved health of soil condition, best crop

response to lower chemical fertilizer application was noticed. The production of sugarcane in 1995 reached **1200 tonnes in 25 acres**.

### **ORGANIC FARMING from 1995**

I had always wished to have a bio-diversified farm and an alternative cropping system for sugarcane. I met the late Krishi Rishi Shri Purshotham Rao of Thirthahalli, Dist: Shimoga in 1995 our first master guide in organic farming. I started growing organic vanilla, coffee, pepper, soapnut, teak, vegetables, cereals, pulses and oil seeds in 15 acres.

In view of above factors since 1995 under the valuable guidance of the late Shri Purshotham Rao we, the organic farmers of Karnataka, had adopted different successful systems, numerous biological preparations on our farms to control pests and diseases and promotion of plant growth. I worked a lot with my farm workers to manage the health of the crops. *By 1999-2000 many scientific people in Karnataka started believing that successful organic farming was possible!*

**Table 1: Sugar Cane (20-25 acres)**

<b>Year</b>	<b>Variety</b>	<b>Irrigation</b>	<b>Water GPM gals/min</b>	<b>Electric Power HP/Hrs</b>	<b>Chemical NPK Kg/acre</b>	<b>Yield MT/acre</b>	<b>Farm Machine</b>
1989	CO-740	Flood	900	30/24	1000	14	50 HP Tractor
1990-1995	Co-740	Sprinkler	240	20/16	400-200	25-50	50 HP Tractor
1995-1999	Co 8014/8011	Sprinkler	240	20/12	200-75	40-45	50 HP Tractor
<b>1999-2009 HOMA- ORGANIC FARMING</b>	Co 89014 Co 94012	Sprinkler	<b>240</b>	<b>20/6</b>	<b>No chemicals</b>	40-45	<b>1 pair of bullocks and 10 HP Power Tiller.</b>

### **HOMA-ORGANIC FARMING from 1999**

In 1999 I first met Shree Vasant Paranjpe. Heal the atmosphere with Agnihotra Homa and the healed atmosphere will take care of your farm along with minimum organic farming practices. Grow nutritional food without any chemicals by strengthening the subtle energy structure of plants to enhance plant health and yield. Agnihotra Homa and Om Tryambakam Homa can be done daily by any person irrespective of caste, creed, religion, age and sex. HOMA Therapy can be used with any system of organic farming, if alone organic farming practices are not giving the desired results. These were the words from Shree Vasant Paranjpe which changed my vision. I wanted to practice simple and successful organic farming with lower cost of production, lower energy inputs, lesser water and labour. I immediately incorporated HOMA with my organic farming on all 50 acres.

### **HOMA ORGANIC EXPERIENCES OF SUTAGATTI**

- Highest Vanillin content 2.91% in processed vanilla beans for the year 2000 in India. Tested at Spice Board Evaluation Laboratory Cochin
- Highest Vanillin content 36% in CO<sub>2</sub> Vanilla oil, in the year 2004. Tested at CFTRI Mysore. (International commercial oils contain 27-28% Vanillin).
- Good yield in paddy with minimum effort

- 2004-2005: 28-32 bags per acre variety China ponni (One bag is 75kg)
- 2006: 28 bags per acre variety Prasanna (90 days Aerobic Rice)
- 25 bags per acre variety Lala Kadha. (No Organic manures given to the soil).
- No attack of woolly aphid on sugarcane except in 2005 on a small portion (about 0.25 acres). Woolly aphid attack was controlled by natural predators *Dipha aphidivora* and *Micromus igorotus*. (Since 2002 thousands of acres in northern Karnataka and southern Maharashtra were severely affected including some organic farms.)
- Organically Certified (USDA and EU specifications) excellent export quality processed sugarcane whole sugar and jaggery since 2006, superior quality as compared to any other organic farm produce in Northern Karnataka.
- Another very important distinct feature, natural red millipede compost all over the farm; this type of maximum activity of red millipede has not been observed in any organic farms in India. The analysis report, first of its kind in India, attached below: (This analysis was carried out by ex-principal microbiologist Dr O.P. Rupella of ICRISAT, Patancheru, AP)

**Table 1. Microbial population (log<sub>10</sub> cfu/g) and chemical properties of millipede compost, farm of Mr Abhay Mutalik Desai, Belgaum, Karnataka, India [samples collected on 24 Aug 2008 and analysed within 15 days]**

Name of Compost	Rep	Total bacterial population	Siderophore producing bacteria	Fluorescent Pseudomonas	Azotobacter like population	Total fungal population	Actinomycetes population	P solubilizers	pH	EC (dS/m)
Millipede compost	R1	7.28	4.63	5.60	5.06	4.17	SUP	5.42	7.56	0.335
	R2	7.28	4.91	5.45	5.10	4.43	SUP	5.47	7.57	0.329
	R3	7.26	4.89	5.61	4.76	4.42	SUP	5.06	7.64	0.324
	Mean	7.27	4.81	5.55	4.97	4.34	SUP	5.32	7.59	0.329
Live soil Compost	Mean	7.82	6.17	6.64	ND	5.29	6.04	*	7.25	0.217

ND= Not done; SUP= study under progress; \*=Non P Solubilizers population was very high therefore it was difficult to detect the P Solubilizers

#### Notes:

1. All digits (except those in the last two columns are log number colony forming units per gram of the material.
2. log<sub>4</sub> means 10 raised to the power 4, i.e. 10 thousand.
3. Siderophore producers are the group of microorganisms that chelate iron and thus facilitate plant nutrition and promote plant growth; 'Fluorescent Pseudomonas' are known to suppress disease causing fungi and are thus indicators of soil health; 'Azotobacter like population' suggests population of the bacteria with ability to access nitrogen from air. These three types are among the beneficial group of bacteria found in soils. 'Fungi' and 'Actinomycetes' are the other important microorganisms found in soils and like bacteria can be useful or harmful types.

As per Dr Rupella the properties of live soil compost (Amrit Mati) is the best soil received by the ICRISAT lab at Patencheru AP. However to prepare Amrit Mati it takes about 6 months and could be done on few gunthas only (1 guntha = 100 sq m). As compared the natural red millipede compost properties are close to Amrit Mati and is happening on all 50 acres at Sutagatti naturally.

I conclude requesting the scientific community, particularly in India, to carry out experiments if possible to understand how the subtle energies influence the plant kingdom and environment or believe on the results obtained, even though we may not be able to explain fully. Farmers adopted organic farming themselves last decade and were successful and would continue to use Homa Therapy now to become successful and to protect themselves from environmental challenges. They will not wait for the scientific community's approval.

# EXPERIENCES WITH HOMA ORGANIC FARMING IN SOYA BEAN

**Karin Heschl (Austria)**  
**Homa Therapy Teacher,**  
**Homa Therapy Goshala, Maheshwar, Dist: Khargone, MP.**



We began a Homa Farming project in soya bean in cooperation with Prestige Feed Mills, Jaora Compound, Indore. I and my two children stayed on the Dewas farm for the entire season practising Agnihotra and Om Tryambakam Homas.

Using agro-chemicals the yield from the Prestige farm in the previous year was 350 kg per hectare.

Using Homa Organic Farming techniques the yield in the current year was 1,800 kg per hectare. Other farms in the area averaged 700 to 800 kg per hectare. Nearest best result was 1,200 kg per hectare.

Beans from Prestige farm were of superior colour. Roots of the plants from the Prestige farm bore twice the number of nitrogen-fixing nodules as those from the neighbouring farms.

*Table 1. Shows economic comparison between the best Conventional agro-chemical farm and our Homa Organic farm.*

Part	Details	Units	Qty	Conventional practice		Homa organic farming		
				Rate	Cost/bigha	Qty	Rate	Cost/bigha
Seed	JS335	kg	18	12	216	18	12	216
Fertilizer	SSP	bag	2	115	230			
Pesticide	Nuvacron	litre	0.1	300	30			
Ploughing	Tractor	per hr	0.5 hr	100	50	0.5 hr	100	50
Sowing	Tractor	per hr	0.33 hr	150	50	0.33 hr	150	50
Dora	Bullocks	per day	0.25 day	400	100	0.25 day	400	100
Weeding	Labour	per day	5 men	30	150	5 men	30	150
Spraying	Labour	per day	1 man	30	30	1 man	30	30
Harvesting	Labour	per day	8 men	30	240	8 men	30	240
Threshing	Rs 50	per bag	3 bags	50	150	4.8 bags	50	240
Misc.					50			
Agnihotra								150
<b>Total Expenses</b>		Rs			1296			1226
<b>Yield</b>		Quintals/ bigha	3	850	2550	4.8		4080
<b>Net Income</b>		Rs			1254			2854
<b>Profit%</b>					96.8%			232.8%

One bigha is 0.267 hectare or 0.667 acres.

Results are given per bigha and per hectare.

Yield in conventional agro-chemical farming was 300 kg per bigha (1,120 kg per hectare)

Yield in Homa Organic farming was 480 kg per bigha (1,800 kg per hectare)

Profit in conventional agro-chemical farming was Rs 1,254 per bigha (Rs 4,702 per hectare) or 96.7%

Profit in Homa Organic farming was Rs 2,854 per bigha (Rs 10,702 per hectare) or 232.8%

Conclusions:

Homa Organic Farming in Soya Bean showed:

- Less cost in production
- Greater yield per hectare (more than 50% greater)
- Superior economy.

*Table 2. Shows the comparison of several variables between Conventional agricultural practice and Homa Organic Farming in respect of this soya bean project.*

Parameters	Conventional Agriculture	Homa Organic Farming
Average seed weight per 1000 seeds	103.66 g	142.60 g
Protein content % in seed	39.15%	39.50%
Oil content % in seed	19.54%	19.62%
Urease activity* (average)	7.94	7.86

Conclusions:

Homa Organic Farming in Soya Bean showed:

- Bigger and bolder seed size
- Higher percentage of protein in seed
- Higher percentage of oil in seed
- Lower urease activity

\* Urease activity in soya bean is important in the cattle feed industry when urea and soya bean meal are combined in cattle feed. The urease activity must be low enough that the urea will not be decomposed.

# EXPERIENCES WITH HOMA ORGANIC FARMING IN COTTON

**Bruce Johnson (Australia)**  
**Homa Therapy Teacher,**  
**Tapovan, Tal: Parola, Dist: Jalgaon, Maharashtra**



There are four main cotton growing areas in Maharashtra, India - Khandesh, Marathwada, Vidarbha and Deccan Canal. Tapovan is situated in the Khandesh area. The GMO varieties of cotton which are known as Bt cotton have now achieved almost 100% penetration into these areas due to very aggressive marketing strategies by the seed companies. Bt cotton is genetically engineered to protect the crop against only one pest - the American boll worm. However, cotton is attacked by no less than 165 pests. And now these secondary pests are attacking with great ferocity.

The number of attacks by aphids, thrips, jassids, etc, has risen steeply since the introduction of Bt cotton in 2002. Tobacco leaf streak virus, tobacco caterpillars, etc, have emerged as new diseases and pests of Bt cotton. The emergence of the mealy bug as a Bt cotton pest also appears to be a case of secondary pest resurgence, and no amount or type of pesticide has been able to control it.

This year, the farmers of Khandesh report massive attack of the fungal wilt disease known locally as "Lalya". Lalya seems to attack only some varieties of Bt cotton. Lalya causes an initial reddening of the leaves, then the whole plant turns red and after a few days it completely dries up and dies. In the farms surrounding Tapovan as many as 50% now show signs of Lalya wilt. Some farmers have already removed their cotton and are preparing their land for the next crop. This results in a massive economic loss to the farmers who are already in serious financial difficulty.

On the other hand in Tapovan we have sown non Bt American hybrid, Ankur 651. The plants are smaller in height than the Bt varieties but a count of the number of cotton bolls per plant compares very favourably with the Bt varieties. Bt plants are normally much bigger in size but this does not necessarily translate into more bolls per plant. On some farms we have counted an average of only 50 to 60 bolls per plant. In Tapovan we get an average of up to 80 or 90. This success is due to Homa Organic Farming technology and the use of Biosol biofertilizer.

Chemical Bt Cotton (per acre)			Tapovan Homa Cotton (per acre)		
Name:	Lukadu Dhanji Patil		Name:	Abhay V. Paranjpe	
Area:	11 acres		Area:	4 acres	
Variety:	Bt Rasi 2		Variety:	Non Bt Ankur 651	
Seeds	2 bags @ 1,200	Rs 2,400	Seeds	2 bags @ 325	Rs 650
Urea,	etc 20 bags @ 500	Rs 10,000	Vermicompost	20 bags @ 300	Rs 6,500
Spray	6 x	Rs 6,960	Biosol spray	7 x	Rs 2,600
Weeding		Rs 1,100	Weeding		Rs 1,350
Harvesting		Rs 1,500	Harvesting		Rs 1,200
Total cost/acre		Rs 21,960	Total cost/acre		Rs 11,800
Yield per acre		14 quintals	Yield per acre		8.4 quintals
Income (Rs 2,600 per quintal)		Rs 36,400	Income (Rs 3,500 per quintal)		Rs 29,400
Profit per acre		Rs 14,440	Profit per acre		Rs 17,600
<b>Profit %</b>		<b>66%</b>	<b>Profit %</b>		<b>149%</b>

Note: 1 quintal = 100kg

Above is a cost comparison of our Tapovan cotton compared with our neighbour's Bt cotton for 2008/9 season. Our neighbour has 11 acres under cotton variety Rasi 2.

As can be seen the costs of the chemical Bt cotton package is nearly double the cost of Tapovan Homa Organic cotton. This, coupled with the premium price for organic cotton, meant that in spite of lower yield per acre, the profit margin % for Homa Organic cotton was more than double that of the chemical Bt cotton.

# INTEGRATION OF ORGANIC FARMING SYSTEMS FOR SUSTAINABLE MANGO & POTATO PRODUCTION

Dr R K Pathak

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Ministry Agriculture & Cooperation, Krishi Bhawan, New Delhi



Mango and potato are the most important horticultural crops of India. Mango is rightly titled as “the King of Fruits” for its wide variability, attractive colours, excellent taste, nutritive, therapeutic values and export potentials. Mango is cultivated on 2.2 million hectares area with total production of 37.79 million tonnes. It works out to be 6.30 tonnes/hectare. This production is too low, and needs to be increased to a minimum of 10 tonnes/ha.

Potato is the most important vegetable crop, which contributes around 26.7% of vegetable production in India. As per information, it has attained annual production 290.64 lakh tonnes (2007). The, major potato growing states are Uttar Pradesh, Bihar, West Bengal, Punjab, Karnataka, Assam and Madhya Pradesh. Gujarat ranks first in productivity (26.6 tonnes/ha) followed by Uttar Pradesh and West Bengal. Potato is a bulk feeder and removes a lot of nutrition from the soil. Due to heavy removal of nutrition from the soil and incidence of number of pests and diseases, there is a misconception that there will be a remarkable dip in potato production

Hence, organic production of these two major crops of the country will go a long way in improving productivity and further boost the domestic and export market, which can show a path for sustainable production, provided the system, can meet the following challenges.

The major issues of organic production are:

- Par excellence produce quality
- Yield equal or better than with the conventional systems
- Organic input generation at the farm/village level
- Eco-friendly and cost-effective technology
- Continuous improvement in soil fertility

A number of organic production systems are prevalent in the country and being attempted on various crops including mango to meet the above issues. Brief account of the systems and possibilities of their integration as *Jaiwik Package* for organic production are enumerated below.

**Brief account of organic systems:**

## 1. BIODYNAMIC SYSTEM

This system appears to be one of the sound alternatives. It is based on systematic and synergistic harnessing energies from **Cosmos, Mother Earth, Plants and Cow**. For harnessing cosmic energies, an agriculture calendar based on planetary configuration is used in agricultural operations and preparation of few BD (Biodynamic) preparations. Few preparations are used in minute quantities but show remarkable effects on plant growth, metabolism, crop yield and quality. BD-500 i.e. cow dung duly incubated in cow horn is helpful in improving biological activity of soil and BD-501 Silica in horn mediates photosynthesis and provides defense to fungal infection. Efforts are made to restore soil fertility in form of humus, increase the living system of soil by skillful application of crop rotation. Nutrient requirement is managed by application of BD

compost, duly enriched with CPP (cow-pat pit), BD-500; need base use of BD –liquid manures. Pests are managed by promoting cultural, mechanical measures including use of trap crops, spray of BD-501 and need base spray of BD-liquid pesticides prepared from cow dung, cow urine and locally available herbs.

## 2. PANCHAGAVYA KRISHI

It is a special bio-enhancer prepared from five products obtained from cow, i.e. dung, urine, milk, curd and ghee. When suitably mixed, incubated and used, these have miraculous effects on soil fertility and crop productivity. This preparation is rich in nutrients, auxins, gibberellins, and microbial fauna and acts as tonic to enrich the soil, induce plant vigour with quality production. Physico-chemical studies revealed that *Panchagavya* possess almost all macro, micronutrients and growth hormones (IAA, GA) required for plant growth. In general 3-4 (3-4 kg/100 L) percent solution of *Panchagavya* has been found effective for most of the crops. This solution can be mixed with irrigation water at 50 liters per hectare either drip or flow irrigation. Its remarkable effects have been demonstrated in fruits like mango and large number of vegetable crops. It is interesting that in Tamil Nadu even regular bearing has been obtained by this system.

## 3. NATURAL FARMING:

Probably this system is the cheapest system, which can be promoted in assertive way with mango orchardists by providing some basic infrastructure, and hands on training of few days. It consists of regular use of *Jivamrit* (cow dung, urine, jaggery, pulse flour, virgin soil) at 15 to 30 days interval through irrigation water, coupled with mulching (green/dry, monocotyledon plus dicotyledon) and proper soil aeration. *Jivamrita* is a rich bio-formulation which contains a consortia of microbes. This helps in quick decomposition of organic wastes placed in the trenches duly made at the outer periphery or in between the rows and properly drenched with *Jivamrita*.

Ingredients for preparation of *Jivamrita* are indicated in table 1.

**Table 1 Ingredients for *Jivamrita***

1. Cow dung	10 kg
2. Cow urine	5-10 liters
3. Jaggery	2 kg or 4 liters sugar cane Juice
4. Virgin soil	1 kg
5. Pulse flour	2 kg (As per availability)
6. Water	200 liters
7. Container	Plastic/earthen/cement

**Table 2 Analysis of *Jivamrita* 5<sup>th</sup> Day sample**

Tested organism	Viable cells
AZOSPIRILLUM	2x10 <sup>6</sup>
PSM	2x10 <sup>6</sup>
PSEUDOMONAS	2x10 <sup>2</sup>
TRICHODERMA	2x10 <sup>6</sup>
Yeast & moulds	2x10 <sup>7</sup>

Two hundred liters of *Jivamrita* is enough for one-acre area. It can be applied through irrigation water by flow, drip or sprinkler or even by drenching on mulches spread over the field or the tree basin.

#### 4. NATUECO FARMING

It follows the principles of eco-system networking in farming system approach. Knowing nature more closely, through critical scientific inquiries and experiments, farming is done. It has a new vision of infinite resource potentials in Nature and sunlight which promises *plenty for all* through harvesting all these resources. The three relevant aspects of Natueco farming are:

**Soil:** Enrichment of soil by recycling the biomass and establishing a proper energy chain. The basic component of this technology is "*Amrit Mati*" a special bio-formulation rich in microbial consortia prepared from "*Amrit Pani*" fermented solution of cow dung, urine duly enriched with locally available organic waste, upper crust of soil, and decomposition of foliage from different crops at various stages of its maturity for ensuring availability of macro and micro-nutrients. It takes almost 90-100 days for its preparation and contains all the nutrients, plant growth promoting factors, microbial consortia required for maintenance of fertile soil.

**Roots:** Development and maintenance of white fibrous root zones for efficient absorption of moisture and nutrients:

**Sun:** Harnessing solar energy through proper canopy management for efficient photosynthesis and encouraging multistoried farming system.

#### 5. HOMA ORGANIC FARMING

It is a totally revealed science. It comes from Vedas, the most ancient body of knowledge known to mankind. It is a gift to humanity from ancientmost Vedic sciences of bio-energy, medicine, agriculture and climate engineering. This has been tried in quality production of mango and potato by a large number of farmers in India and particularly in Peru.

*Agnihotra* is the basic fire in Homa Therapy. It is process of purification of the atmosphere through the agency of fire, prepared in a copper pyramid tuned to the biorhythm of sunrise/sunset. As an impact of *Agnihotra*, tremendous amounts of energy are gathered which creates a magnetic-type field. This neutralizes the negative energies and reinforces positive energies. Pyramid is generator; the fire is turbine. The cow dung, ghee and rice then interact to form a composition, which is thrust into the atmosphere, providing nutrients for survival, yield and quality production.

A special bio-formulation developed by Gloria Guzman Mendez from Peru and named as "**Gloria Biosol**" is prepared after a series of processes which act as tonic to the plants. Ten to fifteen percent solution of this is sprayed twice a month to boost the vigour and production.

Homa production of mango in Peru has shown very encouraging results with respect to quantum of production and excellent quality. The results have been exceptionally higher than by any other techniques. In order to repeat the same, we tried to see the performance with Dashehari a leading mango variety of north India. On an average productivity of Dashehari is around 10 tonnes/ha. For this yield, one has to spray a minimum of 5-6 sprays of pesticides at regular intervals. I anticipated that if we can increase production even up to 20 tonnes/ha and eliminate use of any chemicals in its production it would be a real contribution in mango cultivation. On my advice Ramesh Tiwari from Hasanganj, Dist: Unnao, Uttar Pradesh initiated Homa Organic Farming in his orchard and as per his statement (see separate report p. 4) he has been able to accomplish my dream. It is interesting to record that his mango orchard is free from any pest and disease infection and production is superior as compared with those managed with agro chemicals. Seeing his

success, about 15 more orchardists have initiated Homa Organic production of mango in the nearby area. Same efforts are underway in other mango-growing belts of the country.

## 6. JAIVIK KRISHI

It pertains with integration of few compatible techniques from the above systems that can be practiced by providing some infrastructure support and few days training. In case of perennials and crops which are planted at distance of more than 45 cm, mulching and tree pasting need to be integrated for better impact. Brief account of the same has been enumerated below. On my close observation and experience gained by interacting with large number of people in the country, I have tried to conceive package of Jaivik Krishi, which can address the above issues.

It is interesting to record that the aforesaid organic farming systems if applied properly, can manage the Rhizosphere and even plant canopy, but if it can be integrated with Homa Organic Farming which basically heals the Biosphere, it will further accelerate the results. The same efforts I am trying to push to resolve issues mentioned in the introduction. The following steps are proposed to be adopted

### 7.1. HABITAT DEVELOPMENT - A MODEL FOR 4 HA MANGO FARM

- Encourage to develop a pond of appropriate size preferably at the center of the farm for rain water storage, its recycling for critical irrigation and eco-system improvement
- Plant *Glyricidia*, perennial, *Sesbania*, *Leucanea*, *Cassia tora* etc for biological nitrogen fixation (BNF) on bunds of ponds or plots (1.5 m wide, on at least 800-1000 m)
- Plant some trees, and bushes at appropriate places e.g. neem, 3-4, tamarind, gular, 1-2, ber, 8-10, aonla 1-2, drumstick, custard apple 2-3. 1-2, mahuva, etc
- In between *Glyricidia* rows, insert a few plants of pesticide value such as *Adathoda vesica*, *Vitex nigundo*, *Calotropis*, *Datura alba*, *Ipomea* etc for preparation of organic pesticides
- A 400 m. long *Glyricidia* strip can provide 22.5 kg per year from 3rd year & up to 77 kg nitrogen/ha/year under rain fed conditions
- This can be 75-100% higher under irrigated conditions
- Three to four harvests can be taken under irrigated and two harvest under rain fed conditions annually
- Never allow to grow above 5.5 ft to avoid shading effect
- Lopping used as green manure, for composting, preparations of liquid manures, mulching the ground, tree basin

### 7.2 Input Generation at the Farm

- Vermicompost/NADEP compost/Biosol production unit along with shed
- One hundred and two hundred litre capacity cement, earthen or plastic drums for production of bio-enhancers and bio-pesticides
- Establishment of Resonance Point preferably on 40-60 ha area by convincing orchardists for collaborative efforts in demonstrating impact of this novel technology

### 7.3. Mulching

Mulching refers to covering surface area of tree basin or the whole area as the case may be in between the plants with organic waste materials locally available (paddy, wheat straw, hay, sugar cane trash, rice husk, FYM, banana thumbs, coconut fronds, lawn grass clippings, leaves, wood savings etc) or black polythene, Esso mulch etc. Mulching is an essential component of organic farming. In fact, Mother Earth always prefer that its surface should be covered with some live material, i.e. plants or with organic wastes so as to minimize the nutrient loss through erosion.

In case of perennials such as mango, even fallen foliage along with some organic material of legumes can be utilized as mulch material for recycling of nutrients absorbed from the soil. It is paradoxical to record that fallen foliage is never recycled in litchi orchards. Hence, plenty of nutrients are removed regularly. It is advisable to sow some seeds of legumes such as black gram, green gram, cow pea, horse gram etc in the beginning of rainy season and mixed with the foliage fallen from the tree or some monocotyledon such as paddy straw, sugarcane trash, etc.

Even from long-lived trees like mangoes one can get calculated production with proper water and nutrition management.

Recycling of its own leaves, branches, seeds etc. is mostly enough to supply the inorganic nutrients.

#### **Some impacts of mulching are**

- It protects moisture conservation
- Reduces erosion
- Maintains soil structure
- Effective weed management
- Reduces overheating of soil
- Releases nutrients to the plants
- Provide congenial conditions for improved activity of macro and micro fauna
- Reduces fruit drop
- Improves fruit quality

#### **7.4. Tree Pasting**

Tree pasting with paste prepared with cow dung, urine, clay along with some dung ash has been found very effective in management of gummosis, infestation of pests like Stem bores etc. In case, *Agnihotra* is performed in the orchard, *Agnihotra* ash has better response than cow dung ash. If possible, pasting twice (after rains and during spring) in a year should be practiced particularly in crops like mango. Besides protection this practice encourages better transport of nutrients and water from the ground and photosynthetic materials from foliage to root systems.

To my understanding the following alternatives can be integrated. The proposed package of practices that can be adopted in organic production of mango and potato has been summarized below.

### **8. PACKAGE OF PRACTICES FOR JAIVIK KRISHI OF MANGO/POTATO**

#### **8.1 Nutrient management**

- Growing of legumes for green manuring or as inter/cover crops as per requirement and as per calendar
- Growing of leguminous shrubs such as *glyricidia*, *leucenea* etc at the farm boundary and its recycling in compost, liquid manure or through mulching
- Recycling of mango leaves along with some legumes as mulch material in mango
- Application of organic manures, 50-100kg/tree or 4-5 tonnes/ha (NADEP/Vermicompost/ Biodynamic Compost/, Microbe Mediated Compost) in descending moon period in mango/potato

- Mulching after application of 100g CPP (cow -pat pit) plus spraying of cow horn manure (BD-500)/ Biosol alternatively Agnihotra enriched water/Amrit Pani/Panchagva/ Jiwamrita/Vermiwash

Need based foliar spraying of biodynamic liquid manures/vermiwash/cow pat pit (CPP)/Biosol as per recommendation

Alternatively FYM can be duly incubated over a week by incorporating *Azospirillum* or cow-pat pit and 40-50kg of the enriched manure per tree or 4-5 tonnes/ha can be given in ring prepared at the outer periphery of tree canopy during June/July immediately after fruit harvest in mango and at the time of field preparation in potato.

## 8.2. Pest Management

In organic systems there is minimum incidence of pest and disease infection. For potato it is always advisable to treat the tuber before sowing as enumerated below.

**Preparation of *Bijamrita*** It consists of use of (cow dung, urine, lime water, virgin soil) for tuber treatment. It is prepared in mud pot, cement or plastic container. Five kg fresh cow dung is immersed in water by tying in a cotton bag over night. Fifty gram lime is mixed with one liter of water separately in an earthen container. The next morning, squeeze the bundle of the cow dung in a bucket by pouring water thrice continuously, so that the essence of dung will be accumulated in the bucket. Incorporate 5 litres of cow urine stir it well. Fifty gram virgin soil and limewater is added and the solution is diluted to the tune of 20 litres with plain water. After 8 hours of incubation *Bijamrita* is ready for use.

### Use of *Bijamrita*

- Dip the tuber or sprinkle *bijamrita* on tuber in such a way that it covers the tuber or
- Dip the tuber for one hour and dry in shade before sowing

### Impact

- It enhances germination and increases number of sprouts
- It protects new emerging plants from pathogen infection
- It induces healthy growth and encourages till ring
- Effective particularly for seed/ soil borne diseases

(Note- sowing of treated tuber on *apogee* and Moon in constellation of Earth is advisable for harnessing the benefits of Cosmos)

### Mango

- Need base spray of mixture of cow urine along with neem oil (2.5 litre each) duly diluted to 200 litre is effective in management of mango hopper
- Spraying of Biodynamic/Organic pesticides prepared from cow urine, neem, karanj (*Pongamia pinnata*), lantana, *Caliotropis procera*, castor, *Thevetia nerifolia*, *Vitex* spp. leaves as per experience.
- Regular performance of *Agnihotra* at sunrise and sunset and use of *Agnihotra* ash enriched water/*Biosol* alternatively is effective in management of most of the pests and diseases.

## Potato

### Sucking pests and late blight

- Take earthen pot
- Fill 15 litres of cow butter milk
- Incorporate a small piece of copper
- Burry the pot for 21 days in ground by covering neck
- Take 10 litres slurry - dilute to 200 litres
- Spray on 1 acre of the crop
- Effective for control of sucking pests & vector transmitted viruses

(Note: Spraying three times of decoction prepared by fermenting chopped neem leaves, plus chillies each plus 250g of garlic and ginger and 50g turmeric powder is effective in management of late blight. Alternatively, 250g Agnihotra ash dissolved in 200 litres of water and stirred for three days and its spray is even effective after infection of blight.)

### All India biodynamic and organic farming association

#### Agricultural & Horticultural Calendar 2009

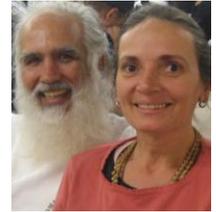
Month /2009	Best Dates for Sowing		Sowing Dates as per Moon in Zodiac				Avoid Sowing				Ascending Moon	Descending Moon
	Moon Sat. 180°	48 Hrs. Before Full Moon	Seed & Fruit e.g. Grains, Pulses, Oil Seeds & Fruit	Roots & Tubers e.g. Potato, Onion, Garlic, Carrot etc.	Flowers Rose, Marigold, Chrysanthemum, etc.	Leaves e.g. Salad, Green, Leafy Green, Veg. Grass	N O D E S	Apo-gee	Peri-gee	New Moon		
Jan.	2,30	9	6,14,15,24	8,16,17,27	1,2,18,19,28, 29	3,4,21,22,30, 31	12,26	23	10	26	1-11, 26-31	12-25
Feb.	26	7	2,3,10,11,20, 21	4,5,12,13,22, 24	6,7,14,15,16	17,18,27,28	9,23	19	8	25	1-7, 22-28	8-21
March.	25	9	1,2,10,20,28, 29	3,4,12,13,21, 30,31	5,6,14,15,24, 25	16,17,27	8,22	19	7	26	1-6, 21-31	7-20
April	21	7	6,7,15,26	8,9,19,27	10,11,20,21	5,13,14,22, 23,29,30	4,18	16	2,28	25	1-3, 17-30	4-16
May	19	7	3,4,12,13,22, 23,30,31	5,6,16,25	8,9,17,18,19, 27	2,10,11,20, 21,29	1,15, 28	14	26	24	15-27	1-14, 28-31
June	15	5	9,18,19,27,28	2,12,21,29,30	4,5,14,15	6,7,16,17,25	11,24	10	23	22	11-23	1-10, 24-30
July	12	5	6,16,17,24,25	9,10,18,19,26, 27	1,2,11,12,20, 21,28,29	3,4,5,13,14, 15,23,31	7,22	8	22	22	8-21	1-7, 22-31
Aug.	9	-	2,3,12,13,21, 29,30	5,14,15,23	7,8,16,17,25, 26	1,10,11,27, 28	6,18	4,31	19	20	5-17	1-4, 18-31
Sep.	5	2	8,9,17,26,27	1,2,11,19,20, 29,30	3,4,5,13,14, 21,22	6,7,23,24	15,28	28	16	18	1-14, 28-30	15-27
Oct.	3,30	2,31	6,7,14,15,23, 24	8,9,16,17,27	1,2,10,11,19, 28,29	3,4,21,22,31	12,25	26	13	18	1-11, 26-31	12-25
Nov.	29	30	2,3,11,19,20, 29,30	4,5,13,14,22	6,15,24,25, 26	1,9,10,17,18, 27,28	3,31	23	7	16	1-7, 22-30	8-21
Dec.	25	29	8,9,17,27,28	1,2,10,11,19, 21,29,30	12,13,22,23	6,14,15,24,25	5,18	20	4	16	1-5, 19-31	6-18

**FARMERS' EXPERIENCES WITH HOMA ORGANIC FARMING**  
**SOUTH AMERICA, MIDDLE EAST**



# EXPERIENCES WITH HOMA ORGANIC FARMING IN PERU

**Abel Hernandez & Aleta Macan**  
**Directors, AGROHOMA, Piura, Peru**



The first Homa Organic Farming results made by governmental institutions in Peru were released more than 10 years ago.

It is officially documented that Sigatoka Negra (Black Sigatoka) was eradicated in areas where Homa Organic Farming Resonance Points were established. Sigatoka Negra is a very resistant fungal disease in bananas and plantains that affects all Central and South American countries and continues spreading worldwide and now also in India, and it has created financial havoc, farmers had to leave their land, banks took over properties, etc.

After noticing how Sigatoka Negra was completely controlled by Homa Organic Farming methods, many other crops were tested with Homa Farming. This generated many successful reports.

Some of the crops where Homa Farming was applied and officially observed are:

Mangoes, citrus fruits, bananas, papaya, coconut, strawberries, blackberries, variety of other fruits and fruit trees, corn, avocados, potatoes, palm oil, tree nurseries, variety of forest trees, variety of flowers, extensive variety of vegetables, rice, cocoa, coffee, tomatoes, asparagus, cotton and many others.

Homa Farming has proven successful in the following aspects:

- Rejuvenation of crop and soil.
  - Eradication, control and elimination of all kind of plagues and diseases in all kinds of crops in all possible climatic conditions (coast, mountains, Amazon area).
  - Better quality products (taste, texture, color, smell, sweetness, nutrients, etc.).
  - Higher production.
  - Vegetative cycle is shortened (harvest in shorter periods).
  - There is an increase in micro organisms and in the reproduction of earth worms so the soil improves naturally.
  - Appearance of beneficial insects (biological controllers).
  - Birds (biological controllers) also appear.
  - Well water quality improves and quantity increases.
  - Homa Technology in cattle raising provides a healthy atmosphere where:
    - a) parasites are eliminated.
    - b) diseases are overcome quickly.
    - c) more female offspring are born.
    - d) no placenta retention.
    - e) cows give more milk with higher fat content.
  - Protective area (micro climate) is created around the Homa Organic Farming Resonance Point which controls climate, rain, droughts, wind, storms, and other weather forces.
- Homa Technology also works as Climatic Engineering.**

One farmer summarizes it like this, after he, like many others using Homa Organic Farming, was able to pay back the loans received by banks and government:

"Until the last days of my life, I will continue to practice Homa Therapy, because, thanks to it, I regained my will to continue to live, working in my agricultural land and I no longer think of selling my land and going to Tingo Maria or another town to search for another means of economic income. I feel happy because I have always been a farmer. I wanted and I continue to want to be a farmer and with Homa Therapy it is possible. I would like that this letter transmits the happiness that a farmer feels when he really can have material prosperity and also good health, a reality that has disappeared from the man in the country side in Alto Huallaga and in other areas for many years."

*Farmer Edgar Arevalo Patow, L.E. N° 23014258. (Peru)*

**To summarize: Over the years, many farmers in South America have experienced the astonishing results of Homa Farming and they feel that this is the ONLY HOLISTIC WAY to:**

- a) prosperity in agriculture**
- b) personal health (physical, emotional and mental)**
- c) protect, nurture and support our planet at the same time**

For further information please see: <http://www.homa1.com>

Arevalo Patow, E., Farmers' Testimonies [online]. See [http://www.homatherapy.info/agriculture/farmers%20testimonies/arevalo\\_.htm](http://www.homatherapy.info/agriculture/farmers%20testimonies/arevalo_.htm) [cited on 30.9.1999]

# HOMA ORGANIC FARMING AND BANANAS

**Irma Garcia**  
**Homa Therapy Teacher**  
**Caracas, Venezuela**



This report describes results from the application of Homa Therapy to rid banana plants of Sigatoka infestation in South America and the effects of Homa environment on the thinking and well-being of participating farmers.

Field studies were done in Peru in which Homa Organic Farming was set up at multiple sites where massive fungal infestation and disease had made it nearly impossible for banana and plantain plants to survive. Positive outcomes, including total eradication of all plagues and sicknesses following the introduction and practice of Homa Therapy in these areas are highlighted in this report.

The banana, one of the world's most popular fruits, is an important source of food in large areas of Africa, Asia, Latin America and the Caribbean. When one season ends and the next begins, bananas are often the only source of food. The banana is among the world's oldest crops; a ten thousand-year-old sterile mutant which lacks the genetic diversity to fight off pests and withstand plagues and diseases such as Black Sigatoka, Panama disease and nematodes. This seedless modern fruit does not reproduce sexually and has to be bred from cuttings.

Today, most international banana trade is based on Cavendish variety, the genetic roots of which lie in India. Until the 1950s, the Gros Michel variety, which was much richer and sweeter, dominated the world's commercial banana business. But it was vulnerable to a soil fungus that produced a wilt known as 'Panama disease' (*Fusarium oxysporum*). Once the fungus gets into the soil, it remains there for many years. Even chemical spraying does not get rid of it, says Rodomiro Ortiz, Director of the International Institute for Tropical Agriculture in Ibadan, Nigeria (Pearce, 2008). So, plantation owners abandoned infested fields and moved to 'clean' land, until they ran out of 'clean' land in the 1950s and had to abandon Gros Michel. During the 1960s the Cavendish, a 19<sup>th</sup> century British discovery from Southern China proved resistant to Panama disease and, as a result, literally saved the international banana industry.

Next came Black Sigatoka (*Mycosphaerella fijiensis*), a fungal disease which appeared in Fiji in 1963 and has since become a global threat to bananas. Causing brown wounds on leaves and premature fruit ripening, the disease cuts fruit yield by 50% to 70% and reduces the productive life time of banana plants from 30 years to as little as two to three years. Sigatoka has devastated thousands of banana and plantain plantations in Central America, South America, the Caribbean and some parts of Asia and Africa.

Commercial growers embarked on a massive chemical assault to Black Sigatoka. Forty sprayings of fungicide a year is typical, making the Cavendish the most heavily sprayed major food crop in the world. Fungicides now make up to one fourth of production costs and the social costs may even be higher: Women working in Costa Rican packing plants, for example, suffer double the average rate of leukemia and birth defects of their children. A study by the United Nations Pan African Health Organization found that one fifth of the countries' male banana workers are sterile,

allegedly as a result of exposure to now banned dibromochloropropane (DBCP) and other fungicides. However, fungicides have not been able to control Black Sigatoka.

Emile Frison, a Belgian plant pathologist and former head of the International Network for the Improvement of Bananas and Plantain (INIBAP), predicted in *New Scientist* magazine in 2003 that in ten years, there may be no more Cavendish bananas in the world; stating, "One thing we can be sure of is that Sigatoka will not lose in this battle." (Frison, 2003). Chemicals which kill human beings, do not kill Black Sigatoka. Costa Rica, famous for its bananas, has begun removing banana plantations and planting African palm on those fields. Luador Gasparotto, Brazil's leading banana pathologist, stated that: "Most of the banana fields in the Amazon have already been destroyed by Black Sigatoka. Production is likely to fall by seventy per cent (70%) as the disease spreads." Departments of Agriculture of Governments in South America publish booklets entitled 'How to coexist with Black Sigatoka.' They are convinced that it cannot even be controlled.

In addition to Sigatoka infestation, Panama disease, is making a comeback. The new form, known as 'race four', has reached South Africa, Australia, much of Asia, some areas in South America, Central America and the Caribbean. Black Sigatoka attacks the leaves; but 'race four' is a soil borne fungus, so chemical fungicides cannot control it. The Food and Agricultural Organization of the United Nations has warned that it is only a matter of time before 'race four' variety of Panama disease makes it to the commercial plantations of the Western hemisphere.

**Attempts to control Black Sigatoka have failed; except through the use of HOMA ORGANIC FARMING which not only controls but also eradicates the infestation.** In the Amazon area of Peru, Shree Vasant Paranjpe of India with two assistants -- the under signed, Irma Garcia of Venezuela and Gloria Guzman, a biochemist from Peru -- applied Homa Organic Farming as a method to eradicate diseases attacking banana and plantain. Homa is a Sanskrit word used here synonymously with Yajnya. Yajnya is the technical term from the Vedic science of bioenergy denoting the process of removing the toxic conditions of the atmosphere through the agency of fire. This means healing and purifying of the atmosphere with fire as the medium. You heal the atmosphere and the healed atmosphere heals you. This is the central idea in Homa Therapy (Paranjpe, 1989).

The team set up Resonance Points where simple practices are used to heal larger areas of diseased plantations in a short time. A Resonance Point is a special arrangement of 10 pyramids which have been activated with Mantra and set up to magnify the power and increase the coverage of Agnihotra. One Resonance Point can be used to heal up to 80 hectares of land. Two simple, inexpensive huts are built with locally available, economic and ecological material: wood, adobe bricks, mats, bamboo, stone, cane, etc. Nobody lives there. The huts simply protect the person performing the healing Homa fires from the sun and rain; and prevent animals from entering. The main hut (Agnihotra hut) is used to perform the Agnihotra daily at sunrise and at sunset and the other is for the performance of daily Om Tryambakam Homa.

Within four months of practicing Homa in designated areas, Black Sigatoka, Yellow Sigatoka, (*Mycosphaerella musicola*), Panama disease and nematodes were eradicated. Banana plants became strong and healthy; and there was rejuvenation of soil and improvement in the new banana shoots, both in quality and quantity. In this area farmers usually have the mother banana plant, the first and second generation, maximum; maybe two more; all other shoots not being fit for

propagation. After four months of applying Homa Organic Farming, banana and plantain mother plants began to produce up to twenty healthy, strong shoots. Farmers were able to keep four for propagation and sell the rest, thus earning more money from the shoots than from the fruit. Then, they started to repay their loans to government and banks. We have letters from Government Officials of Republic of Peru, thanking the Homa team for this outcome. (See [www.homa1.com](http://www.homa1.com)). For example: In July 1999, Department of Agriculture Chief of Huánuco Regional Office stated in paragraph Eight of REPORT N° 07-99- CTAR-H/ DRAG/ DAA-LP-A that:

“8. In the High Huallaga zone, the development of the Homa Therapy Program has become the only alternative capable of producing and harvesting abundant and healthy crops. This has made it possible for many farmers to start paying back their credits to different Government entities.”

Other concrete results in the region are highlighted below:

- Agricultural engineers connected with the Office of the President of Peru reported eradication of Sigatoka after observing 1200 hectares (three thousand acres) for seven months. (Original Spanish documents with signature and seal and English translation found on [www.homa1.com](http://www.homa1.com)).
- The Department of Agriculture in Ucayali region transported thousands of healthy Homa shoots from Ucayali to Huánuco in order to create new plantations with Homa banana shoots; breaking its own legal control (quarantine) under which no part of banana plants could cross regional borders.
- Ministry of the Presidency Special Project Alto Huallaga, Headquarters of the Zone Leoncio Prado Padre Abad, certified that:

“In the Alto Huallaga area, there are approximately 500 hectares of plantains and bananas established with Homa Therapy. These plantations were suffering from high incidence of plagues and diseases. After being rejuvenated with Homa Therapy, they produced healthy shoots of the kind that bear fruit. Twelve germplasm banks with species of plantain and bananas from the region have been established with these Homa Therapy shoots.”
- Engineer Paco Rivera Gonzalez of Ucayali regional Government observed ‘Ingiri’ variety of banana plantation with 100% Black Sigatoka in 11 hectares of bananas and plantain. He stated in his report that with the application of Homa Therapy and Agnihotra Ash solution:
  - Black Sigatoka was totally eradicated from the plantation after four months of daily Homa practices
  - Bunches of bananas are free of any plagues and diseases
  - There is an average of 87 fruits per bunch
  - Plants show harmonic distribution and are uniform in size
  - Fruit is bigger and heavier than standard bananas of the same variety
  - Bananas show unusual shine, which indicates good health
  - Plants have an average of 20 healthy, vigorous true shoots
  - Plants have bright green shining leaves, without diseases or plagues
- Observations by Engineer Rosa Cortez Morales of Department of the Presidency of the Republic of Peru: A fifth generation of ‘Seda’ plantation with 90% Panama disease

infestation was observed for four months after application of Homa Therapy. Plants are totally healthy and giving over 200 fruits per bunch.

- Plantain Isla with 90% Black Sigatoka infestation are highlighted below:

<b>Without HOMA Therapy</b>	<b>After 4 months of HOMA Therapy</b>
Producing small bunches	Uniform rejuvenation in the whole Banana & Plantain Plantation
Minimum production	Bunches are much bigger and heavier with an average of 120 bananas per bunch
70% fungi fusarium	No plagues; no diseases
40% Mucus pseudomonas solanace	
87% Black Sigatoka	8 to 10 healthy leaves per plant at the time of harvest
87% Yellow Sigatoka	
Each plant gave an average of 6 to 7 off-spring, most of which are not fit for propagation	17 to 20 productive off-spring
Production cycle - 8½ months	Productive cycle - 6 months

- Mayor of Nueva Requena certifies observations made by Agro-industrial crops Engineers of Department of Agriculture of Republic of Peru: Farmers had abandoned their banana plantations due to high incidence of Black Sigatoka. Four months after application of Homa Organic Farming, farmers started to come back to their abandoned plantations because Black Sigatoka was totally eradicated; production increased and bananas had high nutritional content, better taste, texture, and color; they were bigger in size, had more weight and were totally free from plagues and sicknesses.
- Major of Puerto Sira certified that banana and plantain trees were dying. The Department of Agriculture of Peru tried by all known methods to eradicate Black Sigatoka; with no results. Total success to eradicate Black Sigatoka was achieved with a scientific organic agriculture known as 'Homa Therapy' which is taught for free.
- Ucayali Regional government has a 13 minute video showing how Black Sigatoka was totally eradicated in their research stations 87% infested banana plantation, after four months of applying Homa Organic Farming.
- SENASA (National Service of Agrarian Health) in Ucayali region, Peru, South America. Observations in 'Ingiri' bananas by Engineer Alejandro Llaque Sakuma: After 2 months of applying Homa Therapy to a plantation 80% to 90% infected with Black Sigatoka, one could easily observe significant decrease of the disease. After four months, Black Sigatoka was completely eradicated. Shoots (offspring) had an excellent formation and strength. "Nowhere else have I seen a mother plant with a healthy banana bunch and twelve healthy leaves."
- Padre Abad, Aguaitia, Cedrujo Sector, Ucayali, Peru. Alberto Rios Soria, owner of 11 hectares of bananas with 97% Black Sigatoka infestation, reported total eradication after four months of applying Homa organic farming technology.

Such dramatic outcomes lead to an important new question about the effect of Homa Organic Farming. We are viewing disease and infestation in bananas as an extreme example of what is

happening to all crops. The application of Homa is proving successful in eradicating these problems, regardless of how hopeless the situation appears to be. Our hypothesis, then, is that **if** applied correctly, **then**, Homa will have a positive effect on other plants and can be instrumental in solving a range of agricultural problems. As the aim is to feed a growing number of people in an economic and sustainable way, creation of Homa Resonance Points will allow us to produce plenty of food; achieve total health of soil, water, atmosphere, all living creatures including human beings; reduce violence, and re-establish the ecological balance of an area up to two hundred acres around which Homa is daily being applied. It takes the same human effort and practically the same investment to achieve these four goals -- food, health, peace and ecological balance -- in one acre as it does in two hundred acres.

If any group of farmers wishes to discontinue the use of chemicals, become organic and take a trial on 'Sigatoka' or any other diseased or plague-affected area, then Fivefold Path Mission will offer its services free of charge. We will set up a Resonance Point of Homa Therapy and train the workers living on the farm to operate Homa Organic Farming. Scientists, if they wish, as well as the National Horticultural Mission of the Government of India, are welcome to make observations.

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## EXPERIENCES WITH HOMA THERAPY IN TURKEY & MIDDLE EAST

**Reiner Szycypior (Germany)**  
**Homa Therapy Teacher**  
**Haridwar, Uttarakhand**



Homa Organic Farming was introduced into Turkey in the year 1986. My wife, Manuela, and I spent 13 years doing Homa Organic Farming at different farms in Turkey and also introduced the technology to the Agriculture University, Bornova Izmir and the local Agriculture board of the Government of Turkey.

When starting Homa Organic Farming we did not know much about farming which was very good. Because of that we solely concentrated on Homa Organic Farming Technology as described in the Book "Homa Therapy, Our Last Chance", by Vasant V. Paranjpe. The technology of Homa Farming as explained in the aforementioned book was the basis of our practices.

Agnihotra the basic sunrise sunset Homa was practiced and daily four hours of Om Tryambakam Homa and on full moon and new moon 24 hours of Om Tryambakam Homa were done.

We used to spray Agnihotra Ash water solution around the fields and tried to keep the soil covered with mulch.

Our neighbours and the officials from the University and the regional Agriculture Department told us that our results and the appearance of our plants and trees were very good and therefore very satisfying. The taste was special which we could see by the response of our customers.

We got more income for our produce even without asking. The merchant came on his own back to us and in spite of having already settled the price with him, added some amount to make sure we did not sell to any other person.

Also our wheat production was superior. The straw was shorter due to lack of water in the region but the power of the plant went into the production of more grains. That means even though the wheat appeared small the production was high.

From Turkey we visited many other Islamic countries in the region. Many times I accompanied Shree Vasant Paranjpe on his tours. Homa Organic Farming Technology in that way was introduced into Syria, Lebanon, Jordan, U.A.E to mention a few.

In the year 2000 we went back to Europe and now we are sharing 32 years of Homa experience in India.

We have seen that Homa Organic Farming does not conflict with any religious beliefs. We know Christians, Jews, Muslims and members of other religious traditions who do Homa for better production and for better health.

Our aim is to approach the different communities in India also, like Jain, Buddhist, Hindu and Muslim to give them the benefit of this timeless knowledge.

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**EFFECT OF HOMA ORGANIC FARMING ON ENVIRONMENT**



# HOMA ORGANIC FARMING IN POLAND MIRACULOUS SUCCESS IN ACIDIC SOIL

**Jaroslaw Bizberg**  
**President, Fundacja Terapia Homa,**  
**Wysoka, Poland**



In 1995, the Homa Therapy Foundation of Poland purchased 3 hectares of land in the southern, hilly region of Poland, 50 km from the Tatra Mountains. This area is covered with pine forests. Therefore, the condition of the soil is very acidic. The soil in the region is also rock hard with high clay content, making it extremely difficult to farm normally.

In September, 1996, we built an Agnihotra shala and began performing daily sunrise/sunset Agnihotra on the land. A couple of years later, we started performing Om Tryambakam Yajnya for 2 hours daily. We also planted a vegetable garden alongside the existing 50-year-old apple and plum orchard.

We plowed the land heavily at least 3 times with a small tractor and horses. Plow ing was very shallow, about 5-10 cm deep, because of the sticky, hard condition of the clay. To this we added a truckload of compost over an area of 2500 square metres.

At the same time we purchased a cow, so we could have cow dung for the Homa Therapy fires and manure for the garden. In spite of the small amount of compost, everything grew very well the first year –cucumbers, tomatoes, lettuce, broccoli, tomatoes, capsicum, etc. Each following year we grew more and more varieties of vegetables and expanded the garden to 5,000 sq. metres. We also increased the Yajnya to 4 hours per day.

No one in the Foundation had any experience in farming or gardening, except for myself who had limited experience gardening in vastly different conditions in Australia, which is a temperate climate.

By 2003, we had a great diversity of vegetables, including Jerusalem artichokes, snow peas, Brussel sprouts, broccoli, tomatoes, and a wide variety of herbs. All of this success we attribute to performance of Agnihotra and Om Tryambakam Homas and regular use of Agnihotra Ash mixed into the compost, soil and the water which we used to spray on the plants. We used Agnihotra ash for transplanting and for seeding as well. We were troubled by weeds and cabbage White Butterfly larvae. We solved the problem, not by using chemical or even natural insecticides and pesticides, but by attracting Nature's predators –frogs, lizards, ladybugs, dragonflies, beetles, birds, etc. within a few years, the problem had completely disappeared, as Nature began to bring itself into balance. We also made a liquid manure from nettles, fresh cow dung and Agnihotra Ash which we allowed to ferment. This was then used to fertilize the plants.

Though we had no gardening experience and lacked professional farming skills, all the vegetables, herbs and fruit produced excellent harvests free of all diseases.

On May 14, 2003 we had a chemical analysis done on the soil by the Agricultural Centre in Krakow to find out exactly what was missing in the soil. As can be seen in the attached charts, the overall acidity of the soil was very high, pH of 4.85, and the worst was the cultivated garden area

at pH of 4.4. As is commonly known, it is impossible to cultivate anything in such acidic pH conditions, except for acid-loving fruits like berries and pine trees, which grew dominantly everywhere in the region.

**Table 1. Chemical Agricultural Centre, Krakow Branch, results for orchard soil analysis:**

**Analysis results:**

No. of sample	Depth cm	Category of soil	pH w KCl	Element content mg/100g			Ratio of K:Mg
				Phosphorus (P)	Potassium (K)	Magnesium (Mg)	
1	0-20	III	4.85 - v. acidic	5.4 - (high)	9.8 - (high)	15.0 - (high)	3.3p

**Table 2. Results of pH reaction and resources of soil samples taken from the agricultural farm Fundacja "Terapia Homa"/Wysoka 151.**

No. of sample	Category of Land	Category of soil	Acidity pH	Lime requirements	Contents in mg/100g soil and valuation		
					Phosphorus (P)	Potassium (K)	Magnesium (Mg)
2	cultivated	medium	4.4- v.acidic	necessary	4.2 (low)	18.0 (medium)	11.7 (high)
3	grass meadow	medium	5.1- acidic	recommended	1.0 (low)	20.0 (medium)	15.0 (high)

**Table 3. Request for research on levels of acidity of soil samples and suggested dose of lime.**

No. of sample	Area in ha.	Category of land	Category of soil	pH	Lime requirement	Dose of CaO in t/ha.	Dose of CaO in t/ha.
1	-----	orchard	medium	4.8- v. acidic	needed	1.50	-----
2	-----	cultivated	medium	4.4- v. acidic	necessary	4.50	-----
3	-----	grass meadow	medium	5.1- acidic	recommended	1.00	-----
TOTAL	3.01 ha						7.02
Average recommended dose in t/ha.							2.33

Since that time we have added some lime to the soil and we are now growing every kind of vegetable and grain under the sun, including corn, squashes, tomatoes, sweet peppers, broccoli, cauliflower, Florence fennel, lettuce, arugula, cucumbers, carrots, beetroot, celery, chard, beans, celeriac, potatoes, radish, pumpkin, and specialty grains like spelt, which is totally impossible in this area. The only crops that local farmers grow in this area are rye, wheat, oats, potatoes, beans, apples and plums. Even these crops provide only enough to feed their families, not enough for commercial sales. This is because of the poor acidic condition of the soil and the short 6-month growing season.

Below are the impressive photos of the different varieties of crops growing here since we started our gardens over ten years ago.

In the garden at Bhruvu Aranya



Abundant Nature



Circular garden beds



Our miraculous Homa tomatoes



Rory picking apples



Parvati, Asia and children in the garden



In the greenhouse

# HOMA ORGANIC FARMING IN AUSTRALIA

## EFFECTS OF AGNIHOTRA AND HOMA THERAPY ON WATER RESOURCES

**Frits and Lee Ringma**  
**Directors, Homa Therapy Association of Australia**  
**Hunter Valley, NSW, Australia**



We have been developing and managing the Om Shree Dham Homa farm in the Hunter Valley, NSW, Australia from 1994 up to the present time. We also regularly participate in voluntary work under the umbrella of Fivefold Path Mission taking Homa Organic Farming principles to farmers in Australia, New Zealand and Asia.

The following are some key experiences we have had in relationship to improving the quality of water resources with Homa Therapy. As we are not scientists, we offer mostly anecdotal evidence i.e. our own and others' direct experiences.

Perhaps the most direct demonstration of how Homa Therapy can balance nature and how nature in turn responds to the true needs of the people, who are helping her, is the story around our bore well.

When we purchased the land in 1994, it was in drought and the only source of water was harvested rainwater held in concrete tanks and dams. With ongoing drought we had to resort to recycling our water.

One day a water diviner turned up and after thoroughly dowsing the land he told us there were no underground streams to speak of. However we took the decision to have a driller come to the land with the hope that we would hit underground water.

To our great relief sub-artesian water was found at 40 meters (130 feet). It was tested on site and found to be saline and alkaline. The pH was 9.5 and salinity measured at 1150 ppm. So here was an opportunity to see what Homa Therapy could do and if it would possibly improve the water quality. We did Agnihotra by the bore and regularly placed Agnihotra ash down into the bore well.

The state department of Water Resources of NSW was conducting regular tests on the bores in our neighborhood and they notified us of the salinity and alkalinity drop with each lab report until after about six months we had stable, potable drinking water at a pH of 7.2, which is considered neutral and salinity measured at 720 ppm. Also what was noted is that the standing water level of the bore has never changed since its beginning at 16.5 meter throughout periods of drought and intense rain. The bore is not considered a high yield bore at 2000 litre/hour.

The story does not stop there, however. Another diviner, highly renowned for his ability to locate water and indicate its depth and flow rate, turned up at Om Shree Dham to learn about Homa Therapy. He was interested in divining the land. After walking the land he came to us saying that the underground water was acting in a very unusual way. He said it traveled along its natural course, then suddenly made a sharp 90 degrees turn, proceeded under the Fire hut where daily Agnihotra and other Yajnyas are performed and continued to the other side of the property then it turned back on itself and continued back to the original course along the other side of the property. We asked him to show us where it turned back on itself. He pointed to a shed. The water course turned back on itself just under our shed! The diviner did not know that we had a bore nor

was he aware that we had built that shed around it. So evidently the water course had made a beeline for the borehole, and then returned to its original course!

This seems to indicate that Homa Therapy has some mechanism that can redirect ground water to serve the needs of those that are performing these Homas.

About the reduction in salinity and the change in pH from highly alkaline to neutral, we have no explanation other than Homa Therapy brings about balance in nature.

Shree Vasant Paranjpe states in his book 'Homa Therapy - Our Last Chance':

"If Homa is practiced on a large scale, the atmosphere is healed and the water resources get purified, leading to **better absorption of sun's rays.**" (Paranjpe, 1989)

I believe this is a clue as to how Homa brings water resources back into a healthy condition.

Shree Vasant Paranjpe explains further:

"Water resources on earth are finding it difficult to absorb energy from the sun (due to pollution). This will result in depletion of marine life and imbalance in nature...Water pollution now takes its toll in rich as well as poorer countries. No water is relatively safe to drink now...HOMA Therapy and Agnihotra ash improve the quality of water and make it potable." (Paranjpe, 1989)

#### **Report indicates the de-polluting effect of Agnihotra ash on water:**

The following report indicates the de-polluting effect of Agnihotra ash on water and on biotic life when industrial effluent was present in the water.

A Bio-assay test was carried out to study the effect of Agnihotra ash on biotic life. Different concentrations of effluents were prepared. Ash dose was given and fish were kept under observation for 48 hours. The effluent was collected from textile process industry

Biotic life was possible in concentrations of 15% effluent with 0.5 g/litre ash and 20% effluent with 2 g/litre ash. Whereas biotic life was absent in 20% effluent with 0.5g/litre ash and 15% effluent with no ash.

The Chemical Oxygen Demand (COD) of the effluent before and after Agnihotra ash treatment was compared. The study revealed concentration of COD after Agnihotra ash treatment is reduced which indicates Agnihotra ash helps to purify the water.

The table is given below:

25th December 2000

Sr. No.	Effluent Concentration	Treatment	COD mg/litre
1.	15% effluent in 1 litre of water	Filter	573.0
2.	15% effluent in 1 litre of water	+0.5 gm ash filter	270.9

The raw effluent was collected from textile process industry.

#### **We invite scientists to investigate the why's and how's of Homa Therapy.**

Effort is being made to understand Agnihotra through the language of science. In their bestselling book, "Secrets of the Soil" (October 1998), authors Peter Tompkins and Christopher Bird have described in detail the advantages and effects of Agnihotra on plants. The authors propound physical explanation of the de-polluting effect of Agnihotra. According to them the colloidal molecules of cow ghee and cow manure could, through chelation, attract and grab pollutants in the air, the way water is purified by being flocculated. The seized molecules, as they settle on the ground would alkalize the soil and if they came in contact with a plant they would stick to leaves and act as a time release foliar nutrient which are taken in by micro stoma on the leaves.

Besides scientific evidence, personal experience of lakhs of people from all walks of life all over the world indicates the effectiveness of Homa in the field of agriculture and health.

## **POSITIVE EFFECTS OF HOMA IN DROUGHT CONDITIONS:**

### **Some anecdotal reports from India**

#### **Through Agnihotra and application of Agnihotra ash, salinity levels drop:**

In 2002 we were involved in outreach programs with farmers in the Khargone District, Madhya Pradesh, India. One particular farmer told us his well from which he irrigated his crops had water with salinity problems. We told him of our experience and suggested that he regularly perform Agnihotra by the well and to regularly put Agnihotra ash into the well. A few months later we received a surprise visit from this particular farmer who happily informed us that he had done what we had recommended and had water samples laboratory tested once a month. With each successive test the water became less and less saline.

#### **In drought, wells remain active and water retention in soil improved:**

Also in this period Homa Therapy volunteers were working with a farm near Indore owned by Prestige Feed Mills. The workers on the farm were instructed to perform twice daily Agnihotra and some Om Tryambakam Homa as well as ash application in their irrigation well and in the soil. At this farm there was a Tryambakam hut and an Agnihotra hut in lieu of a Resonance system.

After approximately 3 months of ongoing Homa at this farm we visited again. The area was in severe drought but to our surprise locals were lining up at the well. We asked what was happening and were informed that this was the only well in the area that had not dried up and indeed was supplying water for others without water.

Frits at this point, out of curiosity, decided to dig a hole in the cultivating area on the farm to see how deep he would have to go before finding moisture. It was approximately 0.5 meter. He then went to a couple of neighboring farms and obtained permission to dig a hole in their cultivating areas and to our surprise we had to dig approximately 1 meter before finding moisture in the soil.

This clearly demonstrated to us Shree Vasant Paranjpe's statement that regular performance of Homa increases the soil's ability to retain moisture.

### **Some anecdotal reports from Australia**

#### **Homa enables nature to function better, even in drought conditions:**

Karuna Coleman of Tamworth, NSW (New South Wales), Australia tells us that in 2005/06 the area in which their farm was situated was seriously affected by drought. Karuna had been performing Agnihotra consistently for several years at this place. Though farmers in the surrounding area were losing stock at an alarming rate and the lack of water meant feed could not be grown, on Karuna's farm they managed to grow oats for their stock and had a functioning vegetable garden for household purposes. They had minimal stock loss and the locals kept asking what they were doing as their farm still looked green and the cows looked healthy. In fact their farm assumed the atmosphere of an oasis in a drought ravished country.

Furthermore, Karuna adds that unlike the locals all around who were in a state of fear, Karuna and her husband were never plagued by negative thoughts about the drought. It is the experience of people all over the world that daily Agnihotra is conducive to healthy positive states of mind.

## **Anecdotal reports from Philippines, Australia and India.**

### **Timely Localised Rain:**

Many farmers practicing Homa around the world report a phenomenon of timely rain falling on their property alone. In the Philippines a farmer from Kabankalan, Negros Occidental last year reported that their Agnihotra-treated farm was thriving and that during a very dry summer all the farms around were very dry except for their farm where they received localized rains. This phenomenon is also noted regularly by locals in regards to Tapovan farm in Jalgaon district, Maharashtra. This has also happened on Abhay Mutalikdesai's Homa farm in Belgaum district, Karnataka and on our Homa farm in NSW, Australia

The Hunter Valley where our Homa farm is located is known geographically as a drought prone area. Homa has been performed daily in this valley since 1987. Australia overall, and in particular NSW, has been severely effected by drought for at least a decade and yet the water reservoir for the Hunter Valley Region has remained filled to good capacity while reservoirs throughout the state have been at crisis point with the lowest levels ever recorded.

### **Regarding Homas to Attract Rain**

"Clouds that have been seeded for rain are going to poison the earth. Science and governments must be warned. It is stated in YAJURVEDA that we should get rain by practicing YAJNYA; we should grow crops by practicing YAJNYA." (Paranjpe, 1989).

## **ANCIENT VEDIC KNOWLEDGE EXPLAINS**

Vedic knowledge offers an overall explanation as to how and why Homa is effective in bringing nature back into a healthy state and maintaining it in that condition in the context of a polluted planet.

Shree Vasant Paranjpe, our Homa Therapy teacher, once said:

"Ancient tradition of Vedic knowledge states that due to performance of Yajnya 'APOORVA' comes about. 'Apoorva' means: 'that which was not there before'. Some special effect comes about: 'something that was not there before'. This means some special effect occurs due to Yajnya. The effect goes to the sub-atomic level. In Sanskrit, 'Anu' means 'atom.' 'Paramanu' is the 'sub-atom.' The subtle structure of atoms changes and comes back to as it was in nature." (Paranjpe, 2008).

## **CONCLUSION**

A polluted planet is in a denatured state, i.e. nature is thrown out of balance by pollution. This renders nature unable to perform properly and this is a very serious situation in relation to nature's capacity to provide food. Already we are seeing food shortage on a planetary scale. Homa Organic Farming needs to be implemented world-wide to bring nature back into balance so that we have quality food for all and peaceful natural surroundings to enjoy quality of life.

### **Sources Cited**

Paranjpe, Vasant V., **Homa Therapy: Our Last Chance**. Fivefold Path Inc., Madison, Virginia, USA. 1989.

Tompkins, Peter & Bird, Christopher, **Secrets of the Soil: New Solutions for Restoring Our Planet**. Earthpulse Press, USA. October 1998.

PARANJPE, VASANT V., **THE SPECIAL EFFECT DUE TO YAJNYA**. PERSONAL COMMUNICATION. JUNE, 2008.

In the garden at Om Shree Dham



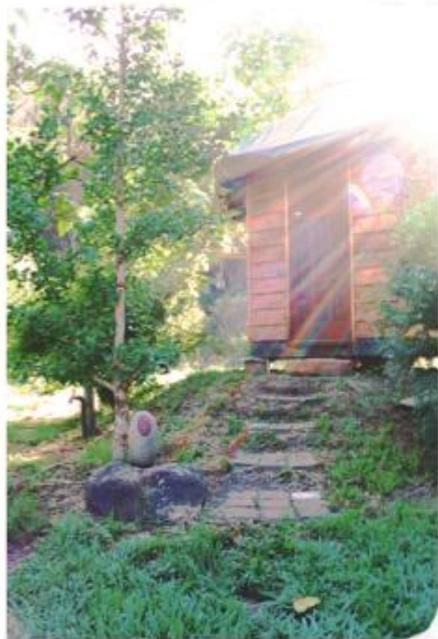
Yajnya Shala, Om Shree Dham



Om Shree Dham Homa Produce



Water Flow Forms



Agni Shala at Om Shree Dham



Wheat crop 2008, Om Shree Dham



Om Shree Dham Farm

# EXPERIENCE WITH AGNIHOTRA AND RADIOACTIVITY

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Homa Therapy Teacher,**

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After the Chernobyl nuclear accident in 1986, scientists in some European countries became more curious and wondered how this Agnihotra effect comes about. During his several trips to Eastern Europe, Shree Vasant Paranjpe told the scientists that if they look at Agnihotra merely from the point of view of chemistry, they might not be able to make much progress. However, if they examine Agnihotra from the point of view of Quantum Physics, they would find a gold mine of knowledge in this ancient Vedic science of healing the atmosphere.

“Vedas” literally means “knowledge”. It is the ancientmost body of knowledge known to human beings. It contains many sciences. Among them are the Vedic sciences of bio-energy, climate engineering, agriculture, biorhythms, pyramidology, medicine (Ayurveda is the oldest science of medicine which exists), etc.

Shree Vasant told the scientists “If you test Agnihotra with an oscilloscope, you will notice a special sound coming from fire. It is sound that heals. Other things are there but key is the sound. Fire produces sound but it also reacts to sound. The act of singing special vibrations while the Agnihotra copper pyramid fire burns, creates a resonance effect which invigorates the cells of plants, leading to better reproductive cycles. Resonance plays a vital part in natural phenomena.” It is RESONANCE which heals. This is how plant plagues and epidemics go away. It is RESONANCE which heals the plants, soil, water and air.

Chernobyl was very dangerous, but today it is even more dangerous. Before, the radioactive elements were in the air - now they are in the soil. Europe is suffering! Children don't have enough non-radioactive elements. Of course the TVs, newspapers and radios don't speak about the real situation, but the scientists and experts know that it is very dangerous. Every day becomes more and more difficult.

When the Chernobyl nuclear accident happened, I was a Homa volunteer and had a farm near Graz in Austria. Immediately after the accident the Austrian Government issued instructions that every farmer had to carry milk and fodder for testing for radioactivity. When I did this, the inspectors were shocked, because they found only normal radioactivity levels in my milk and fodder samples. The inspectors said it was not possible to have normal radioactivity after Chernobyl. They asked: “Is there anything special that you are doing on your farm?”

I told them that my farm was using ancient Ayurveda technology to grow food which is now presented as HOMA Organic Farming technology:

“We do a small fire in a small copper pyramid exactly at the moments of sunrise/sunset. Materials burnt are dried cow dung cake pieces, a little clarified butter from cow milk and a few grains of raw rice. This is called Agnihotra Homa. Also we do another Homa, repeating one mantra and adding a drop of clarified butter to the fire after the mantra for four hours daily. On full moon and new moon days we take turns to maintain the second HOMA for twenty-four hours. According to Ayurveda by this method we inject nutrition into the atmosphere. This affects the plants, soil and subsoil water.”

However the inspectors were not interested. For a scientist, one such experience should be enough to motivate him to do further research.

## SCIENTIFIC EVALUATION



# AGNIHOTRA AND HOMA THERAPY – SCIENTIFIC PERSPECTIVE

DR ULRICH BERK  
PRESIDENT, DEUTSCHE GESELLSCHAFT FÜR HOMA THERAPIE  
Haldenhof, Germany



## A. INTRODUCTION

Conventional farming, although it brought some success in the beginning, showed growing problems after some decades, mainly deterioration of soil, more imbalance in nature – more problems coming, input costs rise and production falls. Both economically and ecologically this is not acceptable any more. Therefore organic farming is a must now.

But organic farming also suffers from all the imbalance of nature caused by pollution of atmosphere, soil, and water resources. In order to set these things right and to bring nature back into harmony, we have to examine every method offering solutions for exactly this problem. Homa Organic Farming offers such solutions but so far scientific validation is still “work in progress.”

Following I want to show which three steps to take for such scientific validation and how we can learn to better understand the *modus operandi* of Homa Therapy.

We will start with *observations*, then talk about *controlled experiments*, look into how we can identify *underlying mechanisms of how Homa works*, and finally have an outlook on more *fundamental research* which will lead to a deeper understanding of Agnihotra and Homa Therapy.

## B. OBSERVATIONS

Many different success stories from various countries show that Homa Therapy has helped to solve severe problems in agriculture where other methods (both conventional and organic) failed. See the reports in this booklet on Mango in Uttar Pradesh, Sericulture & Floriculture in Karnataka, Cashew Nut in Maharashtra, Sugarcane in Karnataka, Soya Bean in Madhya Pradesh, Cotton in Maharashtra, Mango & Potato in Uttar Pradesh, Banana and a great variety of fruit and vegetable in South America, wheat and beans in Turkey and the Middle East.

But of course, these are only a few reports given by the people present in this conference. There is a lot more available on the internet showing that all different kinds of diseases and pests have been controlled by Homa Therapy, that yields have increased and cost of production decreased, that germination period as well as production cycle was reduced, and that harvesting losses were reduced and diseased plants rejuvenated.<sup>1</sup>

Also we have reports from different countries on how Homa Therapy can help to heal soil and water resources and how it even protects from radioactive pollution. In this booklet you find reports on how Homa reduces the acidity of soil, how it brings highly saline and alkaline water wells back to normal, and even how Agnihotra controls radioactivity. (See chapter, “Effect of Homa Organic Farming on Environment,” p. 35-44). Also from different Homa Farms we got reports that biodiversity has increased after the Homa practices started.

## C. CONTROLLED EXPERIMENTS

The wide range and the number of reports on the beneficial effects of Homa Farming are quite

impressive. Even more impressive is to actually visit a Homa Farm and see the results for oneself. Still, as a scientist, one has to ask whether Homa really was the decisive factor to bring about all those positive changes. For that we need *controlled experiments*:

These “controlled experiments” are comparative studies, measuring the quality and quantity of production with and without Homa and keeping all other possible factors (climate, soil, seeds, farming operations, etc) the same.

Preliminary controlled experiments have been done in Palampur University and in the Ooty institute of Tamil Nadu Agricultural University.

The research in Palampur concentrated on the effect of Agnihotra ash (Agnihotra bhasm) as compared with other organic substances on beneficial bacteria in the soil, on the yield and the quality of production (in particular the oil content of medicinal plants). Also it was tested how well Agnihotra ash can control diseases and pests, again in comparison with other organic preparations (p. 53-55).

In the Institute of Commercial Horticulture, Tamil Nadu Agricultural University, Ooty, comparative studies were done on flowers mainly, but also on some kinds of vegetables, and the results are that organic farming with Agnihotra gave better results in terms of yield, quality and shelf life as well as disease resistance (p. 56-60).

In order to study the effects of Homa Farming on larger scale, comparative studies on farm level are suggested. Such studies are in the initial stage in different places like Palampur, Kanpur, and Ooty, and Mathura. The project design is developed now in cooperation with universities in these places.

In short, the general scheme of such comparative study on farm level is as follows:

We select one farm for Homa Farming, one other farm at least three kilometers away (as the crow flies) without Homa. (In case one wants to compare Homa organic with conventional farming also, a third farm could be added for that purpose.)

On both farms the soil quality should be the same, and then the same crops will be planted, using the same seeds, same farming practices, etc. – the only difference will be that we have Homa atmosphere on the first farm but not on the second one. The use of Agnihotra ash in comparison with other organic preparations can be tested on both farms.

On the Homa Farm, the following has to be installed:

Homa resonance system consisting of ten pyramids which are activated by special Homa and mantras (See p. 90-94):

- Agnihotra hut with resonance pillar (four pyramids)
- Tryambakam hut (two pyramids)
- pillars on the boundary at east, west, south, and north of the farm with one pyramid each (four pyramids).

In order to get a clear picture of the effects of Homa Farming such comparative studies on farm level should be conducted -

- in different climatic zones (hilly areas, dry climate zones, humid climate zones, etc.) if possible on different continents
- in rainfed areas / on farms with irrigation
- on different crops like grains, pulses, oilseeds, vegetables, fruits.

## D. HOW DOES HOMA WORK?

### Identifying underlying mechanisms

A comparative study of Homa Organic Farming / non-Homa Organic Farming will clearly show which impact Homa has on quality and quantity of yield, on plant health, etc. As all other factors (like soil, weather, seeds, farming practices) are kept same, the effect of Homa will be identified.

Still, if we see beneficial changes, we still will want to know how these changes come about.

In order to understand this, to really explain how Homa works, we need to examine the important underlying mechanisms which lead to health, growth and yield of plants and see which impact Homa atmosphere and Agnihotra ash have on these mechanisms.

In order to identify such underlying mechanisms, we suggest setting up experiments in disciplines like microbiology, plant physiology, plant pathology, soil science (especially soil physics).

Vedic knowledge offers some insight into how Homa works. We can use these statements as hypotheses and try to understand in terms of modern science and then conduct experiments to corroborate or to refute these hypotheses. Some examples of such statements from Vedic knowledge are:

### Microbiology

*“Agnihotra has the ability to neutralize pathogenic bacteria.”<sup>2</sup>*

This has been shown in water and in the atmosphere.

Interestingly enough, beneficial bacteria are not affected. There must be some intelligence at play – worthwhile subject for further studies.

### Plant physiology

*“Plants grown in YAJNYA atmosphere evolve networks of veins that are cylindrical and larger than normal, permitting water and nutrients easier movement to all parts of the plant. This helps growth and reproduction cycles. Also, it helps in the production of chlorophyll and plant breathing, thereby helping the oxygen recycling system of nature.”<sup>3</sup>*

*“The root system in plants changes due to YAJNYA atmosphere. Roots stay small and less troublesome due to the extreme quality of nutrients the plant extracts from the soil.”<sup>4</sup>*

### Plant pathology

*“The effect of Agnihotra atmosphere and Agnihotra ash on diseased plants can be noticed easily.”<sup>5</sup>*

A plant pathologist could induce some disease on a selection of different plants, then place half of these diseased plants in Homa atmosphere, the rest in control area. All other factors (light, water, etc.) should be same.

*“It will be a breakthrough when the scientist applies Agnihotra medicines to a plant to study the effects.”<sup>6</sup>*

### Soil science

From Vedic knowledge the following is stated:

*“How Homa Farming Works*

*The soil needs to be rejuvenated first by Homa Therapy.*

*In the rejuvenated soil different types of microorganisms, starting from the level of viruses, bacteria, fungi, algae, thrive.*

*Thus, a healthy micro-flora and micro-fauna is created.*

*This gives rise to a micro environment or micro-system which is comparatively less toxic to the growing plants.*

*The soil which has now become a living soil because of the presence of micro organisms has all the chemical components useful for life in the form of carbon, hydrogen and oxygen. According to modern theory, these three together form life in the form of bacteria. We have e.g. nitrogen fixing bacteria, also bacteria working on phosphorus content of soil.*

*After the creation of such micro environment, creatures like earthworms thrive. They eat the soil, digest it and again replenish the soil.”<sup>7</sup>*

*“Soil in Homa atmosphere holds moisture better than any soil. It is due to the ghee (clarified butter from cow’s milk) and the feedback of Homa on the atmosphere. When the nutritional rain comes due to the practice of Homa organic farming, the nutrients and moisture are sustained as a unit in the soil. This makes for better quality vegetation. It seems fantastic but it is true.”<sup>8</sup>*

*“Agnihotra ash increases the water-soluble phosphorus extracted from the soil.”<sup>9</sup>*

Such an experiment has been done in U.S. and has been repeated in Germany recently.<sup>10</sup>

Interestingly enough, the control ash (ash made by burning the same ingredients, but no mantra, not at sunrise/sunset, and using a copper vessel which does not have the shape of a pyramid) did not have this impact on the water-solubility of phosphorus.

Also the soil respiration is increased in Homa atmosphere.<sup>11</sup>

## **E. FUNDAMENTAL RESEARCH:**

### **Understanding the Agnihotra process on a deeper level**

After finding out which underlying mechanisms work, we will understand much better how Homa works.

For example, if the proposed experiments in plant physiology do actually corroborate the hypothesis that chlorophyll activity is being enhanced in Homa atmosphere, then this would give us one explanation why plants grow faster, yields increase, etc.

Similarly with all the other underlying mechanisms which will be examined in the different fields like plant physiology, plant pathology, soil science, etc. If these mechanisms are validated by the research in these different fields, then we understand the effects of Homa on plants much better.

Still, there is the question of how the fire, the pyramid, the mantras etc. bring about these changes? For example, how do the fire, the mantras, the pyramid etc. speed up the activity of chlorophyll system?

This question leads us to a number of more detailed studies in the field of physics.

### **Acoustics**

The physics of sound, vibration, and resonance, will help us to understand better how the vibration of mantras is reflected by the sides of the pyramids, which role the steps of the (ziggurat shaped) pyramids play, and whether we can find proof of the following statement from Vedic knowledge:

*“There is a sound that comes from the ash. It is this sound that heals. All the other physical things are there, such as nutrients, vitamins, minerals. But the key is the sound. One subtle enough to detect can show this.”<sup>12</sup>*

Only recently it has been shown that sound does have an effect on the growth of plants. Most popular were experiments on that subject described in the book "The Secret Life of Plants" by Tompkins/Bird.<sup>13</sup>

Later the French physicist and musician, Joel Sternheimer, discovered one possible underlying mechanism for how plants respond to the stimulation of sound waves. Sternheimer claims that certain sounds correspond to an amino acid in a protein thus leading to kind of resonance effect which can stimulate the production of this protein.<sup>14</sup>

How will these amino acids react on the sound of the mantras of Agnihotra and Tryambakam fires and on the sounds reflected by the different steps of the pyramid? This will be an interesting topic for further research.

### **Electromagnetic Fields**

Especially studies of very high and very low frequencies will be interesting. One approach is taken by Dr. Abhay Shendye who examines the Far Infra Red (FIR) spectrum – what are the emissions of this Agnihotra process and how do these FIR fields created by Agnihotra affect plants and all living organisms? (See his presentation in this booklet, p. 61-62).

Some Eastern European physicists claim that there must be an electromagnetic field of very high frequency (and the Agnihotra pyramid acts as a Horn antenna radiating these waves), but this hypothesis still has to be examined.<sup>15</sup>

### **Plasma physics**

Plasma – the fourth state of matter – is known to react with many different kinds of pollutants and thus can eliminate different forms of contamination.

Studies should clarify how the effect of the pyramid and the specific vibrations can help in this process.

### **Quantum physics**

According to some nuclear physicists of Eastern Europe, after so many nuclear tests, using highly enriched uranium in weapons, and after the Chernobyl disastrous nuclear accident all our environment is radioactive. So also the cow dung you use for Agnihotra has an increased level of radioactivity but the Agnihotra ash does not. The physicists who conducted these experiments were much surprised and they concluded that one has to go deep into quantum physics in order to understand how such changes can happen.<sup>16</sup> Chemistry is not enough to understand these changes. (On the effect of Agnihotra on Radioactivity, see the article by Karin Heschl in this booklet, p. 44).

Again it is interesting to compare the work of modern physics with statements from the ancient knowledge of the Vedas:

*"Ancient tradition of Vedic knowledge states that due to performance of Yajnya 'APOORVA', comes about. Apoorva means: "that which was not there before."*

*Some special effect comes about: "something which was not there before"*

*This means some special effect occurs due to Yajnya.*

*The effect goes to the subatomic level.*

*In Sanskrit, 'Anu' means 'atom'.*

*'Paramanu' is 'sub-atom'."*<sup>17</sup>

## Biophysics

There is some effect of magnetic fields on the growth of plants. According to Vedic knowledge Agnihotra creates some magnetic-type of field around the pyramid.

We can test the hypothesis that this field (which has to be determined first) plays some role in the development of plants.

Recent research, especially in Germany and in Russia, shows that bio-photons are crucial for the communication between cells in living organisms. If this communication is disturbed, diseases occur. (The development of cancer in human bodies could be explained that way.)

How is the activity of bio-photons affected in Homa atmosphere?

To lay out experiments in order to find out possible changes would be a worthwhile project.

## Subtle energies

In order to fully understand how Agnihotra and Homa Therapy work, we probably have to go one step deeper to the level of subtle energies – energies which are known in different cultures by different names as Chi, Orgone, and as Prana in Sanskrit language but which could not be measured till recently by scientific instruments.

The Indian physicist and biologist, Jagadish Chandra Bose, was the first to examine more subtle properties of plants. Cleve Backster from U.S., an expert in lie-detection, connected his sensitive instruments to plants and found out that they respond to emotional states of a person who cares for them. This form of bio-communication cannot be related to electromagnetic waves as it is independent of distance and also is not impeded by a Faraday cage.<sup>18</sup>

Maybe the communication happens on the level of thought energy? This, of course, is a new area which modern science would have to explore.

Again, quantum theory might be the key to understanding such notions and in the end hopefully the ancient knowledge of the Vedas and modern science in its advanced form could come together.

One Eastern European scientist summarized the present state of fundamental research regarding Agnihotra as follows.

*“We believe we can establish the fact of an electromagnetic radiation during the ceremony,” he elaborated. “But we are in an area beyond what conventional science considers rational, into an area of informational transfer through intermolecular and interatomic processes mediated by ultraviolet photons. It is logical to conclude that some kind of energetic mechanism is being activated which can be translated into physical meaning linked to concrete information systems that are as yet unknown, but connected to systems of resonance.”*

(Bird/Tompkins, *Secrets of the Soil*, quoting Dr. Modric, a physicist of Eastern Europe who had done a lot of research on Agnihotra.)<sup>19</sup>

## Footnotes

<sup>1</sup> The reports from which these results were compiled are collected in [www.terapiahoma.com](http://www.terapiahoma.com), the reports in English can be found under: <http://www.terapiahoma.com/english/index.htm>.

<sup>2</sup> Vasant V. Paranjpe, *Homa Therapy – Our Last Chance*, p.21 (First edition, 1989, USA. Page numbers refer to Indian edition, 2005).

<sup>3</sup> *ibid*, p.56

<sup>4</sup> *ibid*, p.57

<sup>5</sup> *ibid*, p.86

<sup>6</sup> *ibid*, p.87

<sup>7</sup> Vasant V. Paranjpe, Unpublished article, 2007

<sup>8</sup> Vasant V. Paranjpe, *op cit*, p.62

<sup>9</sup> *ibid*, p.88

<sup>10</sup> The original work of Dr. T.M. Lai, *Agnihotra Ash and Water Soluble Phosphates*, is online at <http://www.agnihotra.org/science.htm>.

The repetition in one German Agricultural research Institute (FAL) is reported in the article, Kratz and E. Schnug, *Homa Farming - A Vedic Fire for Agriculture: Influence of Agnihotra Ash on Water Solubility of Soil Phosphorus*, in: *Landbauforschung Völkenrode* 3 / 2007 (57):207-211

<sup>11</sup> Prof. Wojciech Puchalski, Lecture at International Conference "Halting the Global Decline in Amphibians: Research and Practice" London, November 20th/21st, 2008

<sup>12</sup> Vasant V. Paranjpe, *op cit*, p.90

<sup>13</sup> Peter Tompkins/Christopher Bird, *The Secret Life of Plants*, New York 1973

<sup>14</sup> Andy Coghlan, *Good Vibrations Give Plants Excitations*, *New Scientist*, 28 May 1994

<sup>15</sup> Personal communication from Mato Modric, Rovinj, Croatia, 2007

<sup>16</sup> Personal communication from Miro Haber, Rovinj, Croatia, 1987

<sup>17</sup> Personal communication from Vasant V. Paranjpe, 2008.

<sup>18</sup> The work of Cleve Backster is summarized in his book: *Primary Perception. Bio-communication with Plants, Living Foods, and Human Cells*, Anza, California, 2003

<sup>19</sup> Peter Tompkins/Christopher Bird, *Secrets of the Soil*, Earthpulse Press, U.S., 1998, p. 252/253

# RESEARCH ON HOMA ORGANIC FARMING IN PALAMPUR, HP

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*This research program is being undertaken under ICAR, Government of India sponsored project, "Niche Area of Excellence in Organic Farming in Hill Agriculture - CSKHPKV, Palampur - Himachal Pradesh"*

In organic farming, knowledge & information is scattered and there is a lack of scientific support system. Keeping these things in view organic farming is being undertaken with different variants:

## Variants of Organic Farming

- **Vedic Krishi (VK)**– organic practices of farmers, which include, cow and compost based organic farming, Panchgavaya, Vermicompost etc.
- **Biodynamic (BD)**: Cosmos calendar - Panchang Calendar; bio-compost, Liquid manures & sprays
- **Homa Farming (HF)**: Agnihotra & Om Tryambakam Homa
- **Effective Microbes (EM)**: Microbes etc.

## Results of Agnihotra Ash (Bhasma)

### Compost Enrichment - Microbes

- Agnihotra bhasma (4gm/100ml PDA medium) enhanced the growth of bio-inoculants under lab studies from 35 to 62.5%.
- The above findings when taken to field trials on French bean, increased the yield from 8.05q/ha to 11.56q/ha i.e. 43.6%

### Integrated Management – Productivity of MAPs Based System

- Addition of Agnihotra bhasma and sowing according to panchang was found to be the best treatment in improving the yield (78.53 q/ha during the first cut taken after 100 days after transplanting and additional 72.78q/ha after 50 days of first cut in *Cymbopogon citratus* - Lemon grass and 252.33 q/ha in *Tagetes minuta*.
- Quality in terms of oil content was also significantly enhanced in Lemon grass (0.41%) and 0.27% in *Tagetes minuta* by application of Agnihotra bhasma.
- Alternaria Leaf Spot disease severity in *Tagetes minuta* was reduced by 12.6% and 11.7% over the control through the application of Agnihotra bhasma and Bt + Himbio respectively.

### Management of Major Diseases and Insect Pests of Organic Farm

- Agnihotra bhasma and Himbio + Bt decreased the disease severity by 12.6% and 11.7% respectively over the control so these can be used for management of Alternaria Leaf Spot in *Tagetes minuta*
- Pea crop sown on Panchang date showed minimum incidence of root rot and Panchang sowing coupled with Agnihotra ash gave best control of root rot in pot experiment.

**Agnihotra is main focus of Research under University PG Program of Environmental Sciences**

**Objective:**

- To work out the relationship of Agnihotra timings, different base mediums, offerings and mantras with the nutrients in the Agnihotra ash.

**Technical program:**

- Study – 1: Effect of timings and different mediums
- Study – 2: Effect of different offerings
- Study – 3: Effect of mantras

**Study – 1: Effect of timings and different mediums**

- Agnihotra offerings – Cow dung + Ghee + Rice grains
- Activity timings (6)
  1. Half an hour before sunrise - SR 1
  2. Sunrise time - SR 2
  3. Half an hour after sunrise - SR 3
  4. Half an hour before sunset - SS 1
  5. Sunset time - SS 2
  6. Half an hour after sunset - SS 3
- Mediums / Apparatus (4)
  1. Copper Pyramid (Basic)
  2. Earthen pot
  3. Glass
  4. Steel

Total treatments:  $1 \times 6 \times 4 = 24$

In all the treatments the replication: 3

Design = CRD (Completely Randomized Design)

**Study – 2: Effect of different offerings**

- Agnihotra apparatus – Copper pyramid
- Activity timings – (6) : (SR1, SR2, SR3 & SS1, SS2, SS3)
- Agnihotra offerings (4)
  1. Cow dung only
  2. Cow dung + Rice grains
  3. Cow dung + Ghee
  4. Cow dung + Ghee + Rice grains

Number of treatment combinations are  $1 \times 6 \times 4 = 24$

Replication = 3

Design = CRD

**Study – 3 : Effect of mantras**

- Agnihotra apparatus – Copper pyramid (1)
- Agnihotra offerings – Cow dung+Ghee+Rice grains (1)
- Activity timings (6) : (SR1, SR2, SR3 & SS1, SS2, SS3)
- Chanting of mantras (2)
  1. Performing mantras
  2. No mantras

Treatments :  $1 \times 1 \times 6 \times 2 = 12$

Replications = 3

Design = CRD

### **Observations :**

- Quantity of the ingredients (input)
- Ash output
- Physical parameters – ash colour
- Ash is being analyzed for nutrient – chemical parameters pH, OC (organic carbon), S, P, K, Ca, Mg and micro-nutrients.

### **Homa Farming - Environmental Status of Organic Farm**

Preliminary observational study on various aspects of environment (land & biodiversity) indicated:

- Spread of White clover (*Trifolium repens*) (Legumes) & Kikyun (*Pennisetum clandestinum*) grasses (Soil binder) increased in farm.
- Weeds problem a little bit suppressed.
- Frequency of occurrence of Brahmi (*Centella asiatica*) increased naturally in farm.
- Birds diversity and their frequency of visit has been increased.
- Friendly insects occurrence has been enhanced.
- Robust health of plants, animals and microbes.

### **Future Research on Agnihotra**

- Effect of Agnihotra bhasma on harmful bacteria - Lab studies
- Special organic Apple Orchards rejuvenation project in Rohru Shimla Dist.
- Systematic study to evaluate the effect of Agnihotra ash and Om Tryambakam ash on growth and yield of various crops
- Role of Agnihotra ash and Om Tryambakam ash in disease and insect management.
- Homa farming vis-a-vis biodiversity

# STUDIES ON THE EFFECT OF AGNIHOTRA ON THE YIELD AND QUALITY OF HORTICULTURE CROPS

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Dr. N. Selvaraj

## INTRODUCTION

Homa or Yajnya is a pyramid fire technique passed down from ancient Atharva Veda. The technical term Yajnya denotes a process of removing the toxic conditions of the atmosphere through the agency of fire. The thereby healed and purified atmosphere is said to have beneficial effects on man, animals and plants (Paranjpe, 1989). The ancient knowledge about the pyramid fire was newly revived in the middle of the 20th century by the Indian teacher Parama Sadguru Shree Gajanan Maharaj and his student, Shree Vasant Paranjpe. Today, it is mainly practiced by organic farmers in South America and India, but is also gaining increasing attention in North America and Europe.

The basic Homa, called Agnihotra is tuned to the bio-rhythm of sunrise and sunset. A small fire is prepared from dried cow dung and clarified butter (ghee) in a copper pyramid. Some grains of unbroken whole brown rice are put into the fire accompanied by chanting a mantra. The ash produced by the fire is also accredited with having healing properties. Dissolved in water and sprayed onto plants, it is said to have fertilizing as well as plant protecting quality. Homa farming may be applied as a complementary method together with common methods of organic farming

According to the Ayurvedic medical doctor and scientist, Priyadarshini (2005), the purification of the atmosphere through Homa leads to an intensification of life energy (= prana). It is postulated that plants under a Homa atmosphere develop cylindrical veins (vascular tissue or bundles) with an above average diameter, permitting water and nutrients to move faster, and thus supporting plant growth and reproduction. Furthermore, a stimulation of photosynthesis and plant respiration, which improves the entire oxygen cycle, is attributed to this atmosphere (Paranjpe, 1989). Several reports from India, Peru, Venezuela, the United States and Austria, some of them including scientific documentation, give account of the beneficial effects of Homa farming on plant germination, development, health and pest resistance, as well as on yield and product quality (Atul *et al.*, 2006; Bhujbal, 1981; Perales *et al.*, 2000; Quintero, 1998; Schinagl, 2004). With regard to soil quality, an improved water holding capacity, an increase in amount and solubility (plant availability) of macro nutrients and trace elements and a stimulation of earth worm activity are postulated as a direct result of Homa treatment (Paranjpe, 1989).

The cited reports indicate a strong potential of Homa farming for improving plant performance in an ecologically sound manner. However, a prerequisite for a broader acceptance of this technique is a clear scientific documentation based on replicable and exact experiments. While most of the above cited effects of Homa Therapy have not yet been scientifically explained or proven, first investigations on the question of nutrient solubility with two Colorado soils revealed an increase in phosphorus solubility when the soils were treated with Agnihotra ash (Lai, no year). A second study was conducted more recently to test if the results reported by Lai could be reproduced with a German agricultural soil under controlled laboratory conditions (Kratz and Schnug, 2007).

The pyramid fire technique has a strong potential for increasing the yield and quality in plant production. It also seems to be capable of regulating insect infestation and fungal disease in crops in an ecologically sound manner. In addition, soil characteristics with significant effect on yield such as plant availability of nutrients appear to be improved by this technique. Thus it will be particularly interesting for organic farmers, as it may apply as a complementary method together with common methods of organic farming.

## EXPERIMENTAL DETAILS

To increase the yield and to improve the quality of Rose, Gerbera, Carnation, Potato, Cabbage under the organic farming system with Agnihotra, trials were laid out in the farms of Institute of Commercial Horticulture, Tamil Nadu Agricultural University, Ooty. The experiments consisted of the following four treatments:

- (i) Organic farming system
- (ii) Organic farming system+ Agnihotra
- (iii) Conventional
- (iv) Absolute control

## RESULTS - S

*Table 1. Effect of organic farming on growth and yield of Rose cv. Passion*

Treatments	Fresh flower wt/ plant (g)	Stalk length (cm)	Flower diameter (cm)	No. of flowers/ plant/year	Shelf life of flowers (days)
Organic	19.54	85.59	6.81	26.54	14
Organic+Agnihotra	21.34	88.98	7.54	28.80	16
Conventional	12.98	75.98	5.54	16.70	3
Absolute Control	8.65	67.23	3.54	12.65	1.5
CD at 5%	0.85	2.95	0.55	1.25	-

*Table 2. Effect of organic farming on the incidence of Powdery mildew of Rose cv. Passion*

Treatments	Powdery mildew ( <i>Spaerotheca pannosa</i> ) (%)
Organic	4.4
Organic+Agnihotra	2.9
Conventional	12.3
Control	25.9

**Table 3. Effect of Agnihotra on growth and yield of Carnation var. Chipro**

Treatments	Plant height (cm)	Stalk length (cm)	Flower diameter (cm)	No. of flowers/ plant/year	Shelf life of flowers (days)
Organic	92.57	90.50	6.50	8.67	13.47
Organic + Agnihotra	95.43	93.24	7.76	9.78	14.43
Conventional	88.23	86.54	4.23	5.78	4.34
Absolute control	70.52	78.85	1.12	3.24	2.14
CD at 5%	2.38	2.25	0.78	1.09	-

**Table 4. Effect of Agnihotra on the incidence of Fusarium wilt of Carnation var. Chipro**

Treatments	Percent disease index	
	Leaf spot ( <i>Alternaria dianthi</i> )	Wilt – ( <i>Fusarium oxysporium f. sp. dianthi</i> )
Organic	3.5	2.2
Organic+Agnihotra	2.8	1.5
Conventional	5.8	4.3
<i>Absolute Control</i>	7.9	5.6

**Table 5. Effect of Agnihotra on the growth and yield of Gerbera cv. Ruby Red**

Treatments	Leaves/ plant	Leaf length (cm)	Leaf width (cm)	Fresh shoot weight (g)	No. of flowers	Shelf life (Days)
Organic	48.6	27.2	9.2	178.25	18	13
Organic + Agnihotra	53.8	29.5	10.8	183.28	20	16
Conventional	45.5	24.5	6.4	160.69	12	8
Absolute control	38.56	19.4	3.5	145.23	8	6
CD at 5%	3.8	1.7	0.7	3.15	1.8	-

**Table 6. Effect of Agnihotra on the incidence of leaf spot and root rot of Gerbera cv. Ruby Red**

Treatments	Percent disease index	
	Leaf spot ( <i>Alternaria dianthi</i> )	Fusarium wilt
Organic	4.5	3.2
Organic+Agnihotra	2.5	1.2
Conventional	27.5	28.3
<i>Absolute Control</i>	40.3	35.25

**Table 7. Effect of Agnihotra on yield and the incidence of leaf spot disease in Cabbage variety Questo**

Treatments	Per cent Disease incidence	Yield (t/ha)
Organic	5.0	64.3
Organic+Agnihotra	3.0	69.21
Conventional	25.36	52.32
<i>Absolute Control</i>	45.2	46.3

**Table 8. Effect of Agnihotra on pest complex of potato cv. Kufri jyoti**

Treatments	Late blight (%)	Yield (t/ha)
	90 days after planting	
Organic	45	8.4
Organic+Agnihotra	11	9.6
Conventional	65	4.2
<i>Absolute Control</i>	80	2.5

## SALIENT FINDINGS

- Among the four treatments Organic farming with Agnihotra (T<sub>2</sub>) in Rose recorded higher performance for fresh flower wt/ plant 21.34 (g), Stalk length 88.98(cm), Flower diameter 7.54 (cm), No. of flowers/plant/year 28.80, and higher shelf life of flowers 16 (days) (Table 1).
- Organic farming with Agnihotra (T<sub>2</sub>) showed higher disease resistance in Rose (Table 2).
- Organic farming with Agnihotra (T<sub>2</sub>) in Carnation recorded higher performance for Plant height 95.43 (cm), stalk length 93.24(cm), Flower diameter 7.76(cm), Number of flowers/plant/year 9.78, Shelf life 14.43(days) compared to other treatments (Table 3).
- In Carnation, Organic farming with Agnihotra (T<sub>2</sub>) showed higher disease resistance (Table 4).
- In Gerbera, Organic farming with Agnihotra (T<sub>2</sub>) recorded higher performance for number of flowers 20, Shelf life 16 days (Table 5).
- In Gerbera, Organic farming with Agnihotra (T<sub>2</sub>) showed higher disease resistance for leaf spot, fusarium wilt. (Table 6).
- Among the four treatments Organic farming with Agnihotra (T<sub>2</sub>) in Potato recorded higher performance for yield 9.6 t/ha and showed increased disease resistance. (Table 7).
- In Cabbage, Organic farming with Agnihotra (T<sub>2</sub>) recorded higher performance for yield 69.21 t/ha and showed increased disease resistance. (Table 8).

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# SCIENTIFIC BASIS OF AGNIHOTRA

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## What is Agnihotra?

### Hypothesis: Mode of Energy Transfer

- Agnihotra generates useful energy.
- This is transferred to all surroundings.
- Pot absorbs energy from sun.
- Agnihotra pot has positive life-energy for several hours after Agnihotra is done.
- Next cycle of Agnihotra after about 12 hours re-charges the pot.
- Agnihotra ash also has specific positive bio-energy which works in similar way.

### Hypothesis: Mechanism of Action

- Agnihotra generates bio-energy [FIR, Far Infra Red].
- This is absorbed by plants and animals.
- Energy absorbed changes aura.
- Because of this extra-energy absorbed biological processes are more efficient.
- Energy or material transfer is channelized.
- Growth, disease resistance patterns and mental health are drastically improved.

### Scientific Energy Detection: Relevant Techniques.

- Agnihotra.
- Poly-contrast Interference Photography (PIP).
- Electro Sound Meter (ESM).
- Resonant Frequency Imaging.
- Humans and living beings.
- Gas Discharge Volume.
- Electro-interstitial Scanning.

### PIP of Ash

### PIP of Agnihotra Pot

### PIP of Agnihotra pot with ash

### Scientific support: Energy Hypothesis

- FIR (presumed to be positive bio-energy from Agnihotra) is produced by fire.
- FIR is specifically produced by all transition elements including copper (Cu).
- FIR is more specifically produced when the transition elements are heated and further by their oxides. Copper oxides are produced during Agnihotra.

### Scientific support: Action Mechanism

- FIR – particularly of 4 -17 micron wave-length is absorbed deep up to 3 – 5 cm in any living body.
- This specific FIR interacts with human body producing useful bio-chemicals and improves physiology (plant growth?).

- The specific FIR is known to kill microbes and inhibit growth of cancer cells (negative energy, paste, disease?).

#### **Proposed Studies: Energy Detection**

- Time-chase studies on energy change for several cycles.
- Quantification of the energy by ESM.
- If possible actual detection of FIR.
- Determination of energy content of individuals performing Agnihotra, and in vicinity before and after Agnihotra.
- Pot trials/row trials on various crops.

#### **Proposed studies: Energy Interactions**

- Effect of Agnihotra done in front of sun and in shadow, and at different timings.
- Long term energy change studies on humans performing Agnihotra.
- Short and long term effect of Agnihotra on energy content of objects in the surroundings.
- Effect of specific shape of pot, material and ingredients.

#### **Expected Learning: Agnihotra Science**

- What should be the exact time for performing Agnihotra?
- How should we maintain the Agnihotra pot?
- Importance of specific components.
- Exact benefits of performing Agnihotra.
- Significance in agriculture.

#### **Pot Trial: Agnihotra & Plant Growth.**

- Dhaincha, *Sesbania bispinosa*, (green manure) trial
- From left to right: Agnihotra ash, Control, Agnihotra environment + ash

## EXPECTATIONS & PROSPECTS



# EXPECTATIONS WITH HOMA ORGANIC FARMING

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## Background

I read about Homa Organic Farming in 1996 and could not believe its implication in agriculture. I was enlightened with a presentation by Mrs Karin Heschl in National Seminar on Organic Farming at Dehradun during 2002. But it was Shree Vasant Paranjpe who prompted me to initiate systematic research and extension on Homa Organic Farming for which he devoted his entire life. His presentation in National Conference on Organic Agriculture during March 2004 at New Delhi was exciting but it created a lot of controversies particularly in media persons of leading newspapers.

Ultimately, I discussed these matters with Shree Paranjpe and he advised me to visit three Homa Organic Farms. Accordingly, I made visits to Manas Krushi Organic Farm at Shahapur in Thane district of Maharashtra owned by Shri Vyankatesh Kulkarni, Tapovan in Jalgaon district of Maharashtra managed by Fivefold Path Mission's representative, Shri Bruce Johnson and Shri Abhay Mutalik Desai's Farm at Sutagatti in Belgaum district of Karnataka. These visits provided me lot of confidence. Under the technical support of Mrs Karin, some activities on Homa Organic Farming were initiated at Central Institute for Subtropical Horticulture at Lucknow and a few farms in Uttar Pradesh on our instigation. A small mango orchard owned by Shri Ramesh Tiwari in Unnao showed exciting response and since then I have been trying to devote most of my time to understanding the implications of Homa Organic Farming.

On my request and further support of Dr Ulrich Berk, systematic research on different aspects of organic farming including Homa has been initiated at Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishwavidyalaya, Palampur, H.P. and at Horticulture Research Station, Ooty a campus of Tamil Nadu Agricultural University. Preliminary research observations at these places are very convincing but it will require systematic efforts by involving large number of institutions and organizations.

Looking at the future prospects of Homa in resolving present day crises, national seminar on "Bringing Homa Organic into Mainstream of Indian Agriculture" is being organized by Fivefold Path Mission. With this presentation, we have lot of expectations, which have been enumerated below.

## CURRENT STATUS OF INDIAN AGRICULTURE

Indian agriculture is at crossroads and per unit area production is decreasing even with high input costs. The major problem is sudden change in prevailing climate, which I call as **climatic disasters**. Hence in recent years, sporadic efforts for alternative systems of production are being attempted with some positive response. But the current problems of agriculture are:

- Soil fertility and factor productivity deterioration
- Extreme pressure on natural resources
- EXHORBITANT COST OF FERTILIZERS, PESTICIDES, HERBICIDES, ETC AND THEIR TIMELY AVAILABILITY

- Extreme climatic changes, frost, droughts, floods, drought, extremely high and low temperature etc. (Climatic disasters)
- FARMERS RECEIVE LOW INCOME FOR THEIR PRODUCTS
- PLAGUES AND DISEASES IN PLANTS, ANIMALS AND HUMAN BEINGS
- DEBTS AND BANK LOANS
- FARMERS PHYSICAL, MENTAL AND EMOTIONAL PROBLEMS AND DISEASES

With these backgrounds, sporadic attempts for organic farming in the country were initiated by a group of dedicated farmers meeting at Sewagram in 1996. At present organic cultivation has spread over 8.68-lakh hectare. In the National Horticulture Mission around 1.04-lakh hectares area are in different stages of adoption and conversion including certification. To our utter surprise, still in the mind of policy makers, scientists and farmers, a number of apprehensions are prevailing which need to be resolved. The apprehensions of undertaking organic as a mass movement are -

### **APPREHENSIONS**

- Can yield level be maintained in Organic Farming?
- Are there enough organic wastes available, which can be recycled and utilized?
- Are there soil fertility and factor productivity improvement with organic farming?
- Can pests, diseases and weeds be managed by using organic resources?
- Are the organically produced commodities superior in quality, nutritive and therapeutic value including shelf life?
- Are organic production techniques cost effective and eco friendly?
- Are there enough markets for organic produce?

These apprehensions can be resolved, provided any organic system can address the following issues -

### **ISSUES IN ORGANIC AGRICULTURE**

- **YIELD EQUAL OR BETTER THAN WITH OPTIMUM COMBINATION OF AGRO-CHEMICALS AND ADVANCED TECHNOLOGIES**
- Continuous improvement in physico-chemical and biological soil properties
- **PAR EXCELLENCE PRODUCE QUALITY WITH RESPECT TO TASTE, COLOUR, NUTRITION, THERAPEUTIC VALUE AND SHELF LIFE**
- On farm generation of inputs for nutrient and pest management including disease and weed management
- The technology has to be cost effective and eco friendly

### **HOMA THERAPY**

It is claimed that Homa Organic Farming can resolve all these issues with minimum efforts and expenditure. The basic strength of the Homa Therapy system is regular performance of Agnihotra at the organic farm. It is a gift to humanity from ancient science of bio-energy, medicine, agriculture and climate engineering. When Agnihotra is performed tremendous amounts of energy is gathered around the copper pyramid at Agnihotra time, which results in creation of magnetic field. This is capable of neutralizing the negative energies and reinforces positive energies. It is further claimed that smoke emerging from Agnihotra gathers particles of harmful radiation from the atmosphere and on a very subtle level even neutralizes the radioactive effects.

There are number of examples that if plants are kept in Homa atmosphere, they receive nutrients from the Agnihotra atmosphere. A special configuration of Agnihotra pyramids is installed to activate a Resonance Point on a Homa Farm. Agnihotra fire along with several hours of “Om Tryamakam Homa” is performed daily, with more hours of Om Tryambakam Homa on full moon and new moon days. Agnihotra ash is used to prepare a special Bio-formulation “Biosol” and also it is used for seed treatment, pest and disease management. As per experience from different continents the following benefits are being claimed.

- Rejuvenation of soil
- Increase in yield and quality improvement in cereals, pulses, vegetables, fruits, nuts, plantation crops and forest trees including pastures
- Crops become superior in quality, taste, texture, colour and diseases resistance
- Homa therapy controls and eradicates weeds
- Homa improves cattle health, production and no vaccinations are required
- Homa improves quality and quantity of milk
- Earthworms and honeybees are benefited by Homa and there is improvement in their efficacy
- There is also improvement in seed quality and viability

## RESEARCH OPTIONS

After critical study of different aspects of Homa Organic Farming, it is apparent that sincere research efforts have not been initiated on this novel technology. So far credit goes to one person, Shree Vasant Paranjpe, who extensively traveled in the all nooks and corners of the world and tried to convince people about the impact of Homa Therapy. It has been accepted by certain groups of people in every continent but institutions responsible for fundamental and applied research have not given due attention. To my common understanding at present there is no foolproof technology which can take care of soil fertility, water quality and environmental improvement. To my utter surprise there are a number of field observations which have demonstrated remarkable impact on these aspects. Besides these, Homa Organic Farming has also showed positive impact on even animal and human well-being. Hence, sincere research efforts are required to resolve many mysteries of this novel technology. It is high time to initiate systematic research on the following aspects.

- Energy gathered around the pyramid at Agnihotra time, their delineation in positive and negative energies through science of astrophysics.
- Measurement of energy pattern through photography in area claimed to be enriched through Resonance impact and Aura created around the plants
- Impact of Agnihotra on physico-chemical and biological properties of soil before and after every crop cycle and monitoring the changes taking place
- Impact on earthworms, and honey bees in Homa and non-Homa atmosphere
- Monitoring of environment with respect to gases and microbial population in Homa vs non-Homa atmosphere
- Impact on soil amelioration i.e. sodic, saline and acidic soil and its monitoring
- Impact of Homa Farming and Agnihotra on water availability and quality
- Impact of Homa on chlorophyll content and photosynthetic efficacy of the plant
- Impact on pest, disease and weed management through Homa
- Studies on impact of Homa on animal component

- Monitoring of diversification in flora and fauna in Homa and non-Homa atmosphere
- Studies on quality of produce with respect to colour, taste, nutrients including therapeutic value, keeping quality of produce
- Possibility of integration of few cultural techniques which may have synergistic impact on production and environmental improvement including water quality
- Long term impact study on sustainability of agriculture in Homa vs other organic production techniques

### **Use of Agnihotra Ash and Biosol**

It is claimed that Agnihotra ash and Biosol are the two important weapons in Homa Organic farming. Hence critical studies are called for -

- Delineation of role of these two by-products of Homa Organic Farming system need to be systematically studied
- Analysis of macro and micro nutrients
- **STUDIES ON MICROBIAL POPULATIONS AND PLANT GROWTH PROMOTING FACTORS**

## **DEVELOPMENT OF HOMA ORGANIC FARMING PACKAGE**

It is claimed that if precisely practiced, Homa Therapy alone is capable of meeting the issues of present day organic farming. But it can be further integrated with other organic techniques. Hence, there is need to develop Homa Organic Farming package wide range of crops under different agro-climatic situations

## **STRATEGY**

- Inventorization of success stories on Homa Organic Farming in India and other parts of world and its replication
- Intensive training of Homa volunteers who can initiate massive Homa Organic Farming for establishment of Resonance Points and regular performance in the beginning
- Intensive training to interested farmers, NGOs and corporate sector for adopting Homa Organic Farming
- Establishment of field demonstrations in public and private farms for comparative evaluation
- Helping interested persons with Agnihotra time table and establishment of Resonance Points at the farm
- Massive training for preparation of cow dung patties and cow ghee in Homa village
- Training on Homa seed production, storage and treatment
- Training on preparation of Agnihotra ash water and Biosol and their use
- Effective management of pest, diseases and weeds by Homa techniques
- Analysis of cost benefit ratio with Homa and other techniques

## **Conclusion**

With 12 years of my association with different organic systems, I am of the view that Homa can resolve number of issues and there is dire need to promote this novel technology to assure *Sujalam, Suphalam and Malayaj Sheetalam* and thus good human life by preaching and advocating the ancient knowledge of Vedas.

## **Recommendations**

After two days of extensive deliberations, presentations and discussions, it was very much apparent that Homa Organic Farming has become the need of the hour to resolve a number of crises being faced on every continent. To bring Homa Organic into the mainstream of Indian agriculture, the following actions need to be followed.

- Finalization of proceedings and its sharing to policy makers, research organization, education institutions, NGO, Corporate sectors representatives for their knowledge and confidence building
- Development of literature in English and other regional languages for widespread dissemination of information
- At present a number of states in the country have made organic policy and are trying to promote it in an extensive way. It is high time to convince the people responsible to include Homa package
- Extensive training programs to Master Trainers, Volunteers, Service Providers, representative from Farmers Field School, KVKs, KGKs, Departmental training Centers NGOs association and representatives from corporate sector
- **CONDUCTING FIELD DEMONSTRATIONS FOR ESTABLISHMENT OF RESONANCE POINT, REGULAR PRACTICE OF AGNIHOTRA AND OTHER ASSOCIATED HOMAS, USE OF AGNIHOTRA ASH AND PREPARATION AND USE OF BIOSOL**
- Institutions where research on Homa has been initiated need to publish the research findings at an early date so that authentic information is available for initiating research by other research organizations
- Initiation of Homa demonstration in Goshalas, commercial dairies for its impact and also production of quality cow ghee and dung patties
- Literature and training for preparation of folk medicines from Agnihotra ash and cow ghee
- If possible comparative evaluation of different organic systems and possibility of integration of a few simple techniques to develop a simple “Jaivik Package” which can be adopted by a common group of farmers with few days training
- Impact of Homa needs to be systematically assessed for its impact on water quality, environment, quality of produce and sustainability through cost benefit study

# THE STATUS AND PROSPECTS OF HOMA ORGANIC FARMING IN KARNATAKA

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Organic farming is not new to Karnataka, especially northern Karnataka. Organic farming is a tradition in this region, especially in Karwar district. However, the farmers of this region are unaware of Homa farming i.e. utility of Agnihotra in farming. Some have little knowledge about it. Unfortunately, it is half-baked knowledge. They are worried that this new experiment may further worsen their condition. They have lost confidence not only in themselves but in the entire Agricultural system. Many spurious pesticides, insecticides and fertilizers they have so far used have further dampened their hopes.

At present frustrated farmers are looking for some one to take their land on lease basis and pay them Rs.3000/- per acre. To infuse confidence in the souls of these sons of soil, they need to be well educated and properly directed. Their goals have to be refined and focused to bring cheers in their lives. They should be taught the healthy practices their forefathers used to follow. They should be told with certainty that Homa Organic Farming is the only way to stop further deterioration in the environment, soil and water and animal and human lives through proper proof.

Most of the farmers blindly believe their local leader and do not initiate any work without his approval. If the leader wants to protect his image, he does not allow anybody to leave his cover. Pre-conceived ideas of the leader force them to stay wherever they are. It is required to educate them that **Blind non-belief is more dangerous than superstition.**

Homa farming has remained isolated in very few pockets. People here add religious sentiments and mislead the farmers who perform Agnihotra daily that if they commit some mistake, they will be punished by the God. They need to be educated about the Nature's rhythmic cycle and importance of purity of material used in Agnihotra and accuracy in maintaining Agnihotra timings. Farmers need further information that Tryambakam Homa performed daily for 4-5 hours augments the beneficial effects of Agnihotra.

Preparing their mind-set is the first priority. It needs lot of patience. It's a slow process. Everybody knows that video is more powerful than audio. The successful Homa experiments need to be documented and shown to farmers through modern gadgets and equipments. Such successful farmers need to be projected in public. They should be made to express themselves freely in public and suitably rewarded for their achievements.

There should be a Directory of Homa farmers. The mass awakening process needs powerful speakers to speak with authority. The Government of Karnataka has taken lead in this aspect. In each taluka a cluster of 250-300 farmers are being trained and encouraged to add Homa to their Organic farming practices for higher benefits and disease-free produce. The idea is slowly catching momentum.

We need to prepare Model farms all over the country where Agnihotra practices will be seen and experienced by the farmers. Seeing is believing. The sight of model farms will make the farmers believe that Agnihotra works.

Further we need to explain as to why Organic farming with Homa will be a better option than organic farming alone. I have plans to purchase 5-6 acres of land or an established garden whichever is available in and around Dharwad for exercising better and efficient control. This idea struck me when the scientific community of my University neglected the well-established Resonance Point project in non-belief and left it unattended. The scientific community wants scientific proof of the efficacy of Homa farming. Although some efforts are going on in that direction, most of the work is like extension activity. Let us create two wings in our Mission - one to conduct research on Agnihotra and generate scientific data and the other one to get involved in extension activity leading to 'Agnihotra pyramid to farmers land' like 'Lab to Land' activity for the benefit of the farming community adopted by the Agricultural universities.

The Fivefold Path Mission needs to look in to all these observations seriously and devote some time in restructuring and remodeling at national level on the basis of the saying '**small is beautiful.**' The Mission will have to look for young blood to take up from the aged soldiers who are about to retire. These veterans need to transfer this ancient zero technology to the young generation.

Communities in India, other than Hindus need to be convinced about the efficacy of Agnihotra and attracted by projecting those non-Hindus practicing Homa therapy or Homa farming anywhere in the world or especially at least in countries like Poland, Turkey, etc.

People in Karnataka know that no organic farmer has committed suicide. No better certification is required than this to establish the fact that Organic farming not only works but can feed masses also through multi-fold increase in the produce. The reports of some researchers showing higher beneficial effects of Homa in Organic farming need to be highlighted. It needs to be emphasized that Homa along with Organic farming is better proposition than Organic farming alone.

Farmers are slowly becoming aware of the impact of Homa Organic Farming and have started believing in its efficacy. Wide publicity and public awareness programmes will do the trick. I have no doubt that more committed workers and faith-establishing demonstrations and documentaries will make Homa a grand success not only in Karnataka but in entire India.

Great future awaits Homa Organic Farming in India.

## ACTION PLAN



**Dr Ulrich Berk**  
**President, Deutsche Gesellschaft für Homa Therapie**  
**Haldenhof, Germany**



How to bring Homa Organic Farming into the mainstream of Indian agricultural system? Following some points which can be discussed.

- The first idea was introducing Homa Therapy on village level including tribal areas, a big problem here in India in several states. Then we could have a Noah's Ark project which consists of an 80 hectare farm and being sustainable on this area. Another idea also was city farming, there are some experiences in Cuba but maybe this can come later.
- The second idea bringing Homa Farming into the official system - we have to identify the institutions which train the farmers like National Centre of Organic Farming, National Horticulture Mission, the KVKs, the extension units of agricultural universities and the extension units of the ICAR Institute. Then of course after identifying all these institutions, training the extension staff of all these institutions.
- Then number three: We were very much excited when we heard from Abhay Desai about the Karnataka project of implementing organic farming, Homa Farming being part of this project. Abhay Desai will tell us how from village level up to district level, throughout the whole state, this can be organized. Then Homa Farming will be part of this project to implement organic farming on the state level. And then of course if this happens in Karnataka and if the result is good there, why not copy and use the same model for the other Indian states also?
- Then number four: There are several NGOs which work in the field of agriculture; why not work together with these NGOs and see how they can help us in our aim? There is ICCOA, IFOAM, FIBL in Switzerland and then two NGOs which already work with Homa, there is in Orissa one organization of John George called THREAD and then Father George in Josegiri, Kerala. Also spiritual NGOs like Gayatri Parivar, Art of Living, and Vivekananda Ashram. So we are happy to have Dr Mulay here from Art of Living and they are already practicing Homa on large scale.
- Fifth point is the integration into the educational system. There should be a degree course in the agricultural universities. Now already in Palampur University several students are doing their thesis on the subject. Then there should be courses developed for the Open University. And also there are several TV channels for farmers. We should have an educational program which could be shown on these farming TV channels.
- A further point is educational materials on Homa Farming. We should print the Homa Farming Manual in all the important Indian languages. Also it would be good to have a video on Homa Farming with subtitles in the different Indian languages.
- And then last but not least, scientific validation. I am very happy that most of the scientific institutions which are doing research on the subject are represented here. The idea is then to intensify the work and also have cooperation between the different scientists from Palampur, Ooty, Dharwad, TERI and also the Institute in Pune of Dr Shendye and also Kharagpur University where they are ready to start.

**Dr R K Pathak**

**Chief Consultant, National Horticulture Mission**

**Ministry Agriculture & Cooperation, Krishi Bhawan, New Delhi**



- Shree has always laid stress on tribal areas. But because of poor farming, poor nutrition, militancy has arisen. Similar situation has been overcome in Peru, South America.
- Few months back I was in West Bengal. I met the president of a small organization. He was so fascinated when I presented Homa Farming. He said he was ready to implement it immediately. He was from Purulia district.
- Water quality in Jharkhand. One problem is toxicity and the other is salinity. If we can show some good results with improvement in water quality that will be very important.
- If you are going to approach ICAR with Homa Therapy, nobody will accept it because of doubts and apprehensions. But there are a number of NGOs which are already working with organic farming. If Homa Therapy can be included in their organic programs that will be a good step forward.
- In most districts we have farmers' schools? IPM (integrated pest management) and other programs are going on. So if Homa Therapy can be included along with organic that will be useful model.
- Then as a member of ICCOA, we can include HOMA Therapy in their programs.
- Gayatri Pariwar. Dr Pandya, the man in charge has already taken responsibility of converting 300 villages. So if we can find the volunteers that will be a good chance since Gayatri Pariwar people are quite disciplined and our friends Reiner and Manuela Szcypior are already working with them.
- Already with your help I have been able to convince National Centre for Organic Farming. NCOF has Rs 80 crore allocated for Organic Farming, not only Homa Farming. Dr Yadav has suggested two types of training programs: one training program of the service providers of the districts and two days program for farmers' training. Now we can submit the proceedings. This responsibility can be given to Bruce Johnson to prepare a continuous one or two days training program and then through the Regional Directors the service providers can come here to Tapovan and undertake the training program.
- I wonder how to convince the inclusion of this Homa Farming. Earlier I think subject of Ecology has now been included in the high school and junior high school syllabus. But we have to discuss with Minister of Education the inclusion of Organic and Homa in the syllabus also.
- Incidentally Art of Living are thinking very seriously about a 3 or 6 months diploma program particularly on Homa Farming. So if they can prepare the program, Organic plus Homa I think this will be a beginning.
- These 10 farmers from Khargone district in MP have already signed the statement which I have written under technical guidance of Fivefold Path Mission to go Homa Organic, so we have to take a decision whether to work in 5 villages or 10 villages. Because our main centre (Maheshwar) is there in Khargone. So if we can introduce the Homa Organic Farming there I will be able to convince my boss that it is worth promoting.

**Abhay Mutalik Desai, B.E. (Chemical)**  
**Village: Sutagatti, Dist: Belgaum, Karnataka.**



I thank you for allowing me to share in this wonderful, successful two days introduction for Homa Farming itself for the first time in India.

Shree Vasant Paranjpe always said Karnataka is going to lead and this He expressed many times. Even before He left the body I spoke with Him, just one month before and I told Him what is going on in Karnataka. Karnataka has always been a pioneer as far as organic farming is concerned. It was the first state to have a separate organic policy in 2004. In each and every district one organic village was identified from an NGO and in all these villages programs were introduced and an NGO was assigned to take up one area of 250 acres where total organic farming was taught to the farmers in that 250 acres. Rs 3 crore were sanctioned for promotion of organic farming in 2004. In 2008 the new government of Yeddyurappa, announced Rs 100 crore for organic farming and he had already declared that in 2009 it will be Rs 200 crore only to promote organic farming. And the most important thing, it is a different model not before seen in India, an “Organic Krushi Mission” that is an organic agricultural mission was formed. Now that mission has 23 members of which 17 are farmers, all leading organic farmers of Karnataka and 6 are IAS officers of different capacities. Now the organic farming model of whatever has to be taught to the farmers will be decided by these 17 organic farmers. Being themselves practitioners of organic farming they know what should be taught to the farmers and how it should be introduced to the farmers, so they are the decision makers. They are going to guide how these Rs 100 crore are going to be spent for the farmers. It is not the government which is going to decide, it is the farmers who are going to guide the government on how these Rs 100 crore are going to be spent.

In this context another wonderful development took place in the last 3 months. Out of a total of 185 talukas in Karnataka, each taluka now has a trust (there are common by-laws in all the talukas) and all the trusts have been named as Sava Krushi Pariwar. Pariwar means family, Krushi means agriculture, Sava means organic, organic farming families and behind that each one is having his own farm name, so that in that concept about 180 pariwars plus have been formed having 300 families who have already been selected in each trust. This trust is going to run like this: each trust is going to have a president, one treasurer, one secretary, and 15 directors. Each director’s responsibility is to take care of 20 farmers including himself. So to take care of these 300 families, there are 15 directors whose sole responsibility will be implementing all the organic farming practices. Each director who has been selected in most of the talukas is a successful organic farmer except in a few talukas. In case the knowledge is not sufficient, all these directors will be trained on what is organic farming and how it should be done and how it should be taken to the farmers.

Now with this background we can totally cover all the talukas. Now in all Karnataka there are 50,000 families and this all has been done without the aid of the government. Till today the Rs 100 crore is there but nothing has been taken from the government. All this trust formation of the group, selection of the farmers, everything has been prepared at the expense of the farmers only asking no help from the government. And another thing is, there was a very important meeting we had in Bangalore, an oath-taking ceremony. Dr A P J Abdul Kalam, our ex-President, was the

chief guest there and there was an oath-taking ceremony by 50,000 farmers who reached there by traveling overnight from all over Karnataka on January 26<sup>th</sup> at their own expense. These farmers paid Rs one crore 20 lakh in bus fares in just one day. All these 50,000 farmers on their own expenses reached Bangalore with their families and children, (of course I did not take my children, only my wife). They all gathered, took an oath not to add any toxic material to their soil, to grow only organic food for themselves and for others. This oath-taking by 50,000 farmers has never before happened on the face of this Earth.

So with this background suddenly the president who happens to be another farmer, a very good friend of mine, Dr Anand who is also a disciple of my organic guru, the late Purushottam Rao, he called me "Abhay, you have the responsibility to teach Agnihotra to all these 50,000 families." I had not asked anything from him, all the time I was busy, all the time interested only about organic farming, not telling anything about Homa. He knew that I was a very successful Homa farmer but he has come spontaneously on his own. So now the whole thing is going on. Already Rs 40 lakhs for each trust has come in the name of Joint Director of Agriculture. The next year it could be 700 families. More funds, more families will be included in this program. And now there is a platform, we know whom to contact, who are the farmers, who are the first people and they are all friends of ours. It is very easy to take this Homa Therapy to them now. However, it is a challenge teaching 50,000 families Homa Therapy. First thing, you have to have 50,000 Agnihotra pyramids and again the people who are going to take the knowledge to them will be very successful organic farmers having all the knowledge of Homa Therapy, so there is a very good accord which has just come. Now everyone knows that normally only an organic farmer converts to Homa Organic Farming; a chemical farmer does not directly jump to Homa Therapy. So now we are going to have 50,000 organic farmers. Already many of them are doing Homa Therapy - at least more than 2 or 3 thousand. I am 100% certain because I myself have taught more than 5,000 farmers Homa Therapy. So, it is a very important policy and it is exactly the time now, all the time Shree told Karnataka is going to lead and definitely with all your help, support definitely we are going to lead and not only Karnataka, all the states in India, thank you.

**DR. N. SELVARAJ,**  
**Institute of Commercial Horticulture,**  
**Tamil Nadu Agricultural University, Ooty, TN**



In Tamil Nadu the situation is very different. There we have more intellectuals. They always question me. This is my problem. In spite of that I was able to train about 10,500 farmers in Homa Farming in Tamil Nadu. With the Homa Therapy the Agnihotra ash water spray has come into the technology book, the package of practices of Tamil Nadu University 4 years back. The committee has accepted my recommendation after seeing the results. To show how far they have accepted this, included in the manual of TN University is that Agnihotra ash reduces diseases in vegetables. I have distributed 500 Agnihotra pyramids in my own district where tribes are working and I could do it with the help of 35 organisations, which were supporting me.

As in Poland we have the problem of acidic soils. I want to work for the management of acidic soils. Lot of red spider mites due to indiscriminate application of chemicals. Huge opportunities are there within my own district. And I feel it would really be possible to work in the Hill area as a model organic horticulture district of India. I am very confident I can introduce this into the tea plantations. When the big estates start doing it, the smaller ones will follow.

I want to develop some more research projects. In Tamil Nadu it is very difficult. The officials ask so many questions. But in spite of all these difficulties I am continuing. And this seminar gives me a lot of spirit. I thought I was alone struggling with all these things but meeting so many people here, gives me a lot of energy.

I have already submitted a proposal for a network project on effect of Homa Farming on atmosphere to Ulrich and Dr Pathak. I have come prepared. That project will include Dharwad, Palampur Universities and Ooty centre. We want to take some Kirlian photographs of the aura of the plants and show the positive effects and make some data.

**Dr. Pramod W. Basarkar**  
**Professor & Head, Department of Biochemistry;**  
**University of Agricultural Sciences, Dharwad, Karnataka**



One important thing is spreading of this message to different states requires a reception centre in the different states. Just as Tapovan is the centre here in Maharashtra, there should be somebody to receive in Himachal Pradesh, somebody in Karnataka, somebody in Tamil Nadu. So we have to identify those persons first; maybe it takes a little bit more effort, but that is needed.

Then as far as training volunteers is concerned, the message has to go in the right way. These are all called as rituals, Agnihotra is a ritual also. They should be to the point and they should be sung in a particular manner. Training is required for that. This is what is called standardization of technique.

Then as far as convincing villagers is concerned, it is not the villagers we approach, we approach the leader of the village. The leader always holds those villagers in his hands. So it is the approach that is important. We have to find those people who are important. Then there are various NGOs. I happen to be the organizing secretary of an NGO. We have 16 districts in North Karnataka and in each district we have an office, a team of 18 office-bearers. Likewise there are yoga centres. I am connected with yoga also, and whenever I talk about Agnihotra and Homa Farming I explain it as integrated health management because yoga first came for self-betterment and not for treatment, only for behaviour, but now it is promoted for treatment.

One thing I liked about what Venkatesh Kulkarni said was this; I approached many farmers but they did not agree to adopt organic farming, he approached farmers and they agreed. Why? He promised to purchase their entire produce at 20% higher rate. He had the courage and conviction that I did not have. When people get value, a little more than what they produce every year, probably they will agree and there is nothing difficult in that.

There is not a single letter which cannot be found in some mantra. Any type of plant or tree, any part of the tree has a medicinal value, like that it is not impossible to work. Let us work together and find out those places where we can introduce ourselves as Homa Therapists.

**Dr Rameshwar,**  
**Department of Agroforestry & Organic Agriculture**  
**CSK Himachal Pradesh Agricultural University, Palampur, HP**



Now we are going for the introduction of Homa Farming. We should first go with only Agnihotra, not directly start with both Agnihotra and Om Tryambakam because in some cases we are finding problems. So first of all, Agnihotra for some time and when the farmers are convinced because of the technology, the scientific validation, then and only then we should go for the Tryambakam and other things. It is my personal point of view, it is my personal experience, it is my personal suggestion. This is the first thing and there is no problem in disseminating this type of therapy because, as I told you yesterday, nowadays people are suffering from so many problems. For those problems they don't have any solution; where to go? They have applied all the chemicals, all the inputs but they are not getting the results. Then we say that this can be proved. Yes, if you apply that, we will prove it, it will be proved. As I mentioned yesterday, let us say there is some aphid on citrus in the forest, "So how can you control that?" we ask the farmers, "you just tell us how to control it." They say, "Sir, it is very difficult." So if the aphid cannot be removed then how will the trees be saved. So Homa Organic Farming has a bright future. Only necessity is to move in a better way, you can say in a well-planned way. Thank you.

(Ulrich's comment)

Thank you Dr Rameshwar. One suggestion that you gave that farmers first start Agnihotra and then only we would do the Tryambakam, this is what we normally do. We do not come for Resonance Point before the farmer himself or the family starts for several weeks to perform Agnihotra because again with this Apple Project we saw that if they don't have personal interest in it then it will not work. So thanks for this remark.

**Dr Ramakrishna Muley**  
**Art of Living, Bangalore**



Since last four years I am working with Art of Living. AOL everyone knows nowadays. Many devotees are there. It has now become the biggest NGO in the world, 140 countries. Guruji has involved in all fields, spiritual development, all fields. Institute of Agricultural Science and Technology Trust has been established. I am trustee and director of that trust. The first program we took up through this trust is that National Trainers on Organic Farming, that is trainers' training program. Four years back Mrs Karin was invited to Bangalore and she gave the training in Agnihotra. The program was for organic farming. We have included Agnihotra as a part of this training program. Up till now we have trained 200 trainers. They are going into the villages talking to farmers and teaching organic farming plus Agnihotra.

Then we have given Agnihotra to the devotees in other countries also. That means in 140 countries we have taken the technology of Agnihotra and Organic Farming. So this is a major objective of Art of Living.

Then we have some other programs also. We have the objective of planting 10 crores of plants in the next 3 or 4 years because we have a very huge base of committed volunteers, teachers etc. Guruji says that without much follow-up they are maintaining the program. Last year we managed to plant about one crore of trees. Every year our target will be about one crore of trees.

We also have a program of Goshala. Till now we have established five Goshalas in various parts of the country.

Then we have a program of seed bank, promotion of native seeds, time-tested seeds of local varieties, instead of going for hybrids and GMO crops.

Then we have a huge program of training of farmers in 10 to 15 states of the country where 1000 to 2000 farmers at a time come for training. The program is of three days organic farming where we discourage the purchase of any input from outside. Whatever is found on the farm, use that. That includes mulching, panchagavya, jiwamrut. So these are the four major programs. Then we have some other programs also. But we are committed to Organic Farming and Agnihotra. We are planning to start a certificate program on Organic Farming which includes Agnihotra that will be expert program of 3 to 6 months. Then we are thinking of further higher education also, formal and informal education. But mostly we are dealing with informal education, training of the farmers, extension services. Then the second part of these certificate programs, we are thinking of starting Management Course in Agriculture.

Main focus will be on the basic technology of improving the economic condition of the farmers by promotion of organic farming and Agnihotra.

**Anil Bhokare**  
**Technical Officer, Department of Agriculture, Jalgaon**



Good afternoon everyone. My name is Anil Bhokare. I am a technical officer, Agriculture Department, Jalgaon, Maharashtra State.

Actually since four years we have been very much attached with organic farming. We learnt organic farming very sincerely, and we promoted organic farming. I would say that Homa Farming is the latest and greatest version of organic farming. But working of this Homa Farming through bureaucrats is very difficult. What I have experienced, what Dr Selvaraj was saying, don't worry we are all sailing in the same boat. I am also excited that something good will come out of this conference in order to bring Homa Farming into the mainstream. And what is my personal feeling, it is not necessarily through Government support, not at all. Initially we started with Government support in organic farming but we have found that the sustainability of organic farming is only through farmers themselves. Nobody can prevent farmers from going for organic. Before we initiated this organic farming the same argument came, we need some scientific validation. But I remember our ex-Commissioner, Dr Goel, who said if a farmer is himself doing so many scientific experiments in his farm, why do we need such scientific validation? In the case of organic farming it was relatively simple to get some scientific validation, but with Homa farming I think it is very difficult. Moreover, if farmers are happy with this concept, let us not wait for scientific validation. People are going to do it. Today we know now, Dr. Abhay Shendye has giving us very great hope. Tomorrow, if any scientist comes and asks me, now I know that there is an answer for it, so no problem.

Instead of NGOs there are women's self-help groups and this Homa can be a very good tool of especially women, because in our rural area women are the ones who are concerned about health, children's health, economy of the family. My first clients are women and we are definitely demonstrating it to women. And in Jalgaon you see that this is working very nicely, so all these self-help groups of women are bringing a great revolution. Women's self help groups will be a very good tool to promote this Homa farming. I tell you the greatest support in organic farming to my farmers are again women. Women support organic farming in a big way. Women prepare Jivamrut and other preparations. So NGOs are good, no doubt, but our clients can first be these women's self-help groups. Dr Pathak has seen in my family that the ladies are more excited because they are more health conscious and the work can be done by women.

Our Jalgaon district is banana-growing area and the whole economy depends on bananas. And our agriculture economy is around 2000 crores rupees. Out of that 950 crores rupees come from banana. And last year there was a loss of 350 crores, just because of this Yellow Sigatoka and with this Sigatoka, Homa Therapy has given very good results and we are coming in a big way this season. We already started this with the help of women's self-help groups, in my organic farm. So already we have got very good organic status.

So my first suggestion is self-help groups of women and the second suggestion is organic farmers' groups. So why not train all these organic farmers' groups, because if I bring a chemical farmer here, he will ask what is Jivamrut? So we will have to start with ABC. Now it is high time. So let us

grab all the organic farmers. We have very good NGOs working for organic farming and we have already tried with many of these organic farmers groups giving this organic training.

And then the third, my request and suggestion also to Dr Mulay, was that there are a lot of volunteers of this Art of Living so why not create Homa Therapy volunteers. They have not created any boundaries, they are working with anybody who can do this Homa Therapy. So, no doubt, Homa Therapy is very good but the extension methodology has to be expanded. We have to make the use of radio, TV channels, private channels, because if I ask people around this area they also don't know so much about Homa Therapy. Actually it is very surprising, although the centre is in Jalgaon. So we are trying for this, but let us bring it in a massive way. So we need some help of volunteers. How can we promote this Homa Therapy? And definitely we will take support of bureaucrats, district officials because all people are working for them.

And my fourth request is that, there are very good politicians, those who can support this. So let us bring politicians and all these people on one platform and that platform I can do for Jalgaon. We have contact with these people. So if they come to know this, definitely they have got support of masses and they can help us. So this also we are planning to do and my request to Dr. Pathak "Farmers need some support" and we have got some very good schemes, Dr. Pathak said no problem. You can add one word Organic. Organic and Homa, these can be integrated.

These two days have been very exciting for us. And last request is that, whatever deliberations we had, can you just forward to me because I was very excited that two of the universities are working on this but my university is not. So please do give me your papers for presenting to my vice-chancellor, so that he can come and see about this Homa Therapy. Two universities are working and why is it that in Jalgaon we cannot? We don't have any problem because we have model farm in Tapovan. We have a lot of challenges in Jalgaon - Banana Sigatoka and diseases on pomegranate. So we have a lot of problems here which can be solved and to be frank Jalgaon is having maximum sick people. All hospitals are daily full so we have a very good chance to promote this Homa Therapy and it will come in a big way. That is my promise that on behalf of government and definitely as a volunteer we are very much committed for that. Thank you.

## ACTION PLAN: NEXT STEPS

**Dr Ulrich Berk**  
**President, Deutsche Gesellschaft für Homa Therapie**  
**Haldenhof, Germany**



The different speakers have mentioned all the points given in the introduction and they have given more detailed suggestions what to do in order to bring Homa Farming into the Mainstream of Indian Agriculture System.

After listening to all the speakers it seems clear that farmers need help for their problems (decrease of production due to pests and diseases which cannot easily be controlled, depletion of the soil, in large areas also salinity / acidity or alkalinity, and disturbance of natural balance e.g. deranged weather patterns). We cannot wait till science has finally understood and evaluated every aspect of Homa Farming and till all government institutions have been convinced.

We have to give some help to the farmers now - so how to proceed? The speakers offered many different approaches, tribal areas were mentioned, working together with NGOs which are already active in the field of organic farming, cooperating with self-help groups of women, working on village level with the existing groups of organic farmers, and also details were given how in one State – Karnataka – from village level up, Organic Farming including Homa Farming can be organized.

Now, how to implement all these valuable ideas and suggestions?

It seems there are two basic requirements which we have to concentrate on in order to go one big step forward:

First, we need a programme to train Homa farming volunteers who could support the farmers for some time so that the Homa farming techniques will be applied in a correct way. Remember, these are simple techniques, but they require to be followed exactly (exact timings, mantras, etc.).

Second, in order to coordinate all the efforts and also to:

- prepare the educational materials necessary (in all major Indian languages),
- to cooperate with newspapers, journals, radio and TV,
- to develop courses on university level,

we need an office well equipped to fulfill this big task. This office will provide the necessary infrastructure (computers, printers, internet access, etc.) and some well trained staff is required (both experienced in doing office work and also well versed in Homa Therapy). It should be situated in one of the main Homa Centres of Fivefold Path Mission, best in Maheshwar Goshala or Tapovan.

# HOMA ORGANIC FARMING

## TECHNICAL DETAILS



# HOMA ORGANIC FARMING

Bruce Johnson & Karin Heschl  
Homa Therapy Teachers

## EVERGREEN REVOLUTION

Following World War I the factories which were manufacturing nitrogen-based munitions began producing nitrogen-based fertilizers. This was quickly augmented with phosphorus and potash-based fertilizers. NPK became the new Mantra in agriculture. This laid the foundation for the "green revolution" and modern chemical-based industrial agriculture. This worked fine for some time increasing the food production in India and reducing the problems of famine. However, this imbalance in nutrition soon led to a general weakening of plants and a corresponding proliferation of pests and diseases. This new menace was then treated with the application of deadly poisons.

Everywhere in the world where the industrial agricultural system and the "green revolution" have spread, soil damage and finally soil death are occurring. This is also the case here in India. But even though the soil health is declining, crops continue to be raised because artificial fertilizer is injected into the soil. However, this process is masking the actual biological deterioration of the planet's soils, resulting in the disappearance of nutrients and micro-organisms from the soil. As a result of this progressive deterioration, per hectare production of food grains is decreasing. **Scientists have no solution how to stop this deterioration and improve the soil.**

World food is now in crisis. In the last two years we have consumed more food than we produced. A billion and a half people in the world are now fed simply because of the added increase made possible with chemical fertilizers. If chemical fertilizers were eliminated, the world would face starvation because the soils are dead.

Industrial chemical-based agriculture is by far the most energy INEFFICIENT system of food production. It is extremely destructive of soils, of the nutritional content of the food and of the environment. This, combined with acid rain, ozone holes, pollution in atmosphere, soil and water, radiation, man-made and natural; **all these combine to destroy the top six inches of soil on which our life depends.**

The soil depth and its richness are a basic standard of health of the living planet. When soil is lost, imbalance and injury to the planet's life occurs. Soil scientists estimate that three hundred to one thousand years are required for the build up of each inch of topsoil. Civilization which depends on topsoil for its survival, is destroying that top soil. This is ultimately a suicidal act.

Is there a solution for these problems?

Some people now claim that GMOs would provide such a solution. Till now, the proof of these promises has not been forthcoming. But the risks of this technology are immense and they cannot be contained. Chemical pollution, no matter how bad, will gradually reduce over time. Even nuclear radioactive poisons will slowly mutate into their non-radioactive forms. But Genetically Modified Organisms are biological pollution and this contamination will only increase over time. Studies have shown that in many cases the GMO is more aggressive and will eventually wipe out the natural organism from its habitat.

NO MODERN TECHNOLOGY EXISTS TO DEAL WITH THIS MULTI-SIDED ATTACK.

**Q.** Is there a solution?

**A.** YES. Ancient Science of **Vruksha Ayurveda** has the solution.

It is now presented as **Homa Organic Farming**.

**Q.** HAS ANYONE SEEN THE RESULTS OF THIS TECHNOLOGY IN MODERN TIMES?

**A.** YES. In the Amazon region of the Republic of Peru, South America thirty units each of 100 acres, totalling 3000 acres was monitored by Agronomical engineers from the office of the Presidency of the Republic for seven months including all crops grown in the area.

**Q.** What are the results?

**A.** All plagues and diseases were eradicated, the yield of the harvest was increased, the fruit grew healthy, with better color, taste, weight, texture, etc.

EVER-GREEN REVOLUTION is -

- Super-technology of Homa Organic Farming which...
- Negates the effects of polluting factors and...
- Simultaneously increases per hectare production of harvest.

Ancient Science paves the way to bring peace, bliss and prosperity on earth.

### **WHY HOMA ORGANIC FARMING**

Due to hybrid and compound pollution some western scientists think that we have reached a stage which may be termed 'irreversible'. Organic farming methods which used to give wonderful results even fifteen years ago now fail to do so, due to hybrid pollution. The solution is HOMA ORGANIC FARMING.

Homa Organic Farming injects nutrients into the atmosphere to prevent disease and bring natural predators. Ancient science of **Homa** Therapy states that more than 75% of nutrition to plants and soil comes through the atmosphere. So if you make the atmosphere more nutritious and fragrant by Homa, a type of protective coating comes on plants, and diseases, fungi, pests, etc. do not thrive. Plants' capacity to breathe increases and the toxic effect of choking to death due to atmospheric toxins is eliminated.

The basic tool in **Homa** Therapy is Agnihotra, a small fire prepared in a copper pyramid exactly to synchronize with arrival of the first rays of sun at sunrise for example. The first rays have a purificatory effect on the whole atmosphere. Following is a description of sunrise given in ancient technologies.

"At sunrise the many fires, electricities, ethers and more subtle energies emanating from the sun extend all the way to the earth and produce a flood effect at those coordinates where the sun is said to rise. It is awesome. The flood enlivens and purifies everything in its path, destroying what is impure in its wake. This torrent of life sustaining energies causes all life to rejoice. At sunrise that music can be heard. The morning Agnihotra Mantra is the essence of that music. It is the quintessential sound of that flood. At sunset the flood recedes."

### **TRANSITION PERIOD PROBLEM**

Farmers making the transition from chemical to organic farming generally face the following difficulties:

- Low yields
- Poor appearance and size of produce does not meet commercial standards
- Insects and pest attack from neighbouring fields

## **THE SOLUTION**

All these problems are totally solved with HOMA Organic Farming

- Quantity of harvest per acre will be greater than that grown by any method known to modern science, whether it is organic, chemical or cultural.
- The harvesting time is reduced and therefore the interest the farmer has to pay on loans from banks will be reduced.
- The taste of HOMA produce is better than that produced by any other method for the same variety.
- There is improvement in colour and texture of the harvest.
- HOMA produce has a longer shelf-life than that grown by any known modern method. This is important from the marketing point of view.
- Natural predators appear automatically.
- Disease resistance increases.
- Cost of production is much less compared with other methods.

## **WHAT IS HOMA ORGANIC FARMING?**

- HOMA Organic Farming means the application of HOMA Therapy in agriculture.
- HOMA Therapy means healing the environment, the atmosphere, and all of life using the ancient Vedic Science of Yajnya.
- HOMA means Yajnya or Havan. We use these terms synonymously.
- The backbone of this ancient science of HOMA Therapy is Agnihotra.
- Agnihotra is the smallest and basic HOMA which is performed exactly at sunrise and sunset every day.
- Agnihotra and HOMA Therapy can be practised easily by anyone irrespective of caste, religion, gender, age or race.
- In HOMA Organic Farming two more simple Homas are practiced, Vyahruti Homa and Om Tryambakam Homa.
- Homa Organic Farming is holistic healing for agriculture and can be used in conjunction with any good organic farming system.
- By practising Homa Organic Farming one can grow maximum yield in minimum agricultural area and keep the soil fertile, the water pure and the atmosphere nutritious.

## **HOW HOMA ORGANIC FARMING WORKS**

The soil, water, atmosphere, subsoil water are all polluted by metallic, nonmetallic and gaseous toxicants of different types. The soil in large areas of forest is nearly dead.

### **THE SOIL FIRST NEEDS TO BE REJUVENATED WITH HOMA THERAPY.**

In the rejuvenated soil different types of microorganisms, starting from the level of viruses, bacteria, fungi, algae, thrive. Thus, a healthy micro-flora and micro-fauna are created. This gives rise to a micro environment or micro-system which is comparatively less toxic to the growing plants.

The soil which has now become a living soil because of the presence of microorganisms has all the chemical components useful for life in the form of carbon, hydrogen and oxygen. According to modern theory, these three together form life in the form of bacteria. We have e.g. nitrogen fixing bacteria, also bacteria working on phosphorus content of soil.

After the creation of such micro environment, creatures like earthworms thrive. They eat the soil, digest it and again replenish the soil.

It has been found that when Agnihotra ash is added through normal soil it increases the water soluble phosphate content of the soil and the nutrients are absorbed readily by the root hairs of the plant. Absorption of mega nutrients like nitrogen, phosphorus, potash, because of small cells and active transport, is helped by Homa atmosphere.

When you perform Agnihotra and YAJNYA or other HOMAS in a garden, an atmosphere is created that is conducive to growing and therefore attracts the nutrients, insects, microorganisms and animals that would be happy and thrive in that environment. This, of course, is because nature is so wonderful, it automatically benefits the soil and the plant, and the plant thrives. Same thing happens when you put the ash or use Agnihotra ash water but it works more for the plants individually - by putting the ash around the individual plants or in the beds or spraying the plants, those elements that are best for that plant are attracted to it and it thrives.

Of course, we have to use basic operations of farming like weeding, organic composting, spraying with Agnihotra Ash solution, etc. PRACTICE OF HOMA, HOWEVER, IS THE KEY.

### WHAT IS AGNIHOTRA?

Agnihotra, the basic healing fire of HOMA Therapy, is a small fire prepared in a copper pyramid exactly at sunrise and sunset each day. Agnihotra can neutralize the effects of pollution on plants, animals and human beings and at the same time give nourishment.

### MATERIALS REQUIRED FOR AGNIHOTRA

**PYRAMID:** For Agnihotra you require a copper pyramid of specific size. Copper is a conductor for subtle energies also.

**RICE:** Brown rice. Highly polished rice loses nutritional value and hence we use less polished rice. Only unbroken pieces of rice should be used for Agnihotra. If rice is broken the subtle energy structure around the material is disturbed and hence is not fit for Agnihotra healing fire.

**DRIED COW DUNG:** Take dung from male or female progeny of a cow. Make pancake-like patties and dry them in sun. Agnihotra fire is to be prepared from this dried cow dung. Cow dung is treated as medicine in all ancient cultures whether they be Indians of North or South America, Scandinavians, East or West Europeans, Africans or Asians.

**GHEE (clarified butter):** Take some butter from cow's milk, which has no additives and is pure. Heat it on low heat. After the water has evaporated and white solids have risen to the top pass the liquid through a fine strainer. What passes through is clarified butter (ghee). This can last without refrigeration for a long time. Ghee is a very special medicinal substance. When used in Agnihotra fire it acts as a carrier agent for subtle energies. Powerful energy is locked up in this material.



TIMINGS: Agnihotra is practised exactly at sunrise and sunset each day. Computer-generated timetables are available for any place using software developed in Germany.

### AGNIHOTRA PROCEDURE

A few minutes before the actual time of sunrise and sunset you should start to prepare the Agnihotra fire as follows:

Place a flat piece of dried cow dung at the bottom of the copper pyramid. Arrange pieces of dried cow dung in the pyramid in such a manner as will allow air to pass. Apply a little ghee to a small piece of cow dung and light it. Insert this lighted piece of cow dung in the middle of the pyramid. Soon all the dung in the pyramid will catch fire.

You may use a hand fan to blow the air and help the flame. However, do not blow on the fire so as to avoid bacteria from the mouth affecting the fire. Do not use any mineral oil or similar material to start the fire. At sunrise and sunset the fire should be fully ablaze in the pyramid.

You take a few grains of rice in a dish or your left palm and apply a few drops of ghee to them. Exactly at sunrise utter the first Mantra and after the word SWAHA add a few grains of rice (as little as you can hold in the pinch of your fingers will suffice) to the fire. Utter the second Mantra and after the word SWAHA add a few grains of rice to the fire. This completes morning Agnihotra.

At sunset do the same by using evening Mantras. This completes evening Agnihotra.

If you miss the timing it is not Agnihotra and you will not get the healing effect on the atmosphere or in the ash.

After each Agnihotra try to spare as many minutes as you can for meditation. You can sit at least till the fire extinguishes itself. Agnihotra creates medicinal and healing atmosphere. Just before the next Agnihotra collect the ash and keep it in a glass or earthen container. It can be used for plants or making folk medicines.

### MANTRAS FOR HOMA THERAPY

There are vibrations that exist everywhere. It is only vibrations when you go into it. Where there is vibration there is also sound. When we do these Mantras, the sounds we utter activate these special vibrations that will create certain atmosphere of effects. Then the desired results are realised. These vibrations exist for everything, so anything can be activated, controlled or changed by Mantras.



## SUNRISE AGNIHOTRA MANTRA

**sooryáya swáhá sooryáya idam na mama**

Add the first portion of rice after swáhá.

**PRAJÁPATAYE SWÁHÁ PRAJÁPATAYE IDAM NA MAMA**

Add the second portion of rice after swáhá.

## SUNSET AGNIHOTRA MANTRA

**AGNAYE SWÁHÁ AGNAYE IDAM NA MAMA**

Add the first portion of rice after swáhá.

**prajápataye swáhá prajápataye idam na mama**

ADD THE SECOND PORTION OF RICE AFTER SWÁHÁ.

Agnihotra should be performed every day at sunrise and sunset.

## VYÁHRUTI MANTRA

**bhoooh swáhá agnaye idam na mama**

Add a drop of ghee after swáhá.

**bhuwah swáhá wáyawe idam na mama**

Add a drop of ghee after swáhá.

**swah swáhá sooryáya na mama**

Add a drop of ghee after swáhá.

**bhoor bhuwah swah swáhá**

**prajápataye idam na mama**

Add a spoonful of ghee after swáhá.

## OM TRYAMBAKAM MANTRA

**Om tryambakam yajámahe**

**sugandhim pushti wardhanam**

**urwárukamiwa bandhanán**

**mruityor muksheeya mámrutát swáhá**

Add a drop of ghee after swáhá.

Vyahruti Homa can be performed at any time except sunrise and sunset. It is also performed when commencing Om Tryambakam Homa.

Om Tryambakam Homa should be performed for 4 hours every day. It should also be performed for 24 hours on full moon and no moon days.

## HOW DOES AGNIHOTRA WORK?

## अग्निहोत्र मंत्र

(सूर्योदय)

सूर्याय स्वाहा सूर्याय इदं न मम ।

प्रजापतये स्वाहा प्रजापतये इदं न मम ॥

(सूर्यास्त)

अग्नये स्वाहा अग्नये इदं न मम ।

प्रजापतये स्वाहा प्रजापतये इदं न मम ॥

## व्याहृति मंत्र

भूः स्वाहा अग्नये इदं न मम ।

भुवः स्वाहा वायवे इदं न मम ।

स्वः स्वाहा सूर्याय इदं न मम ।

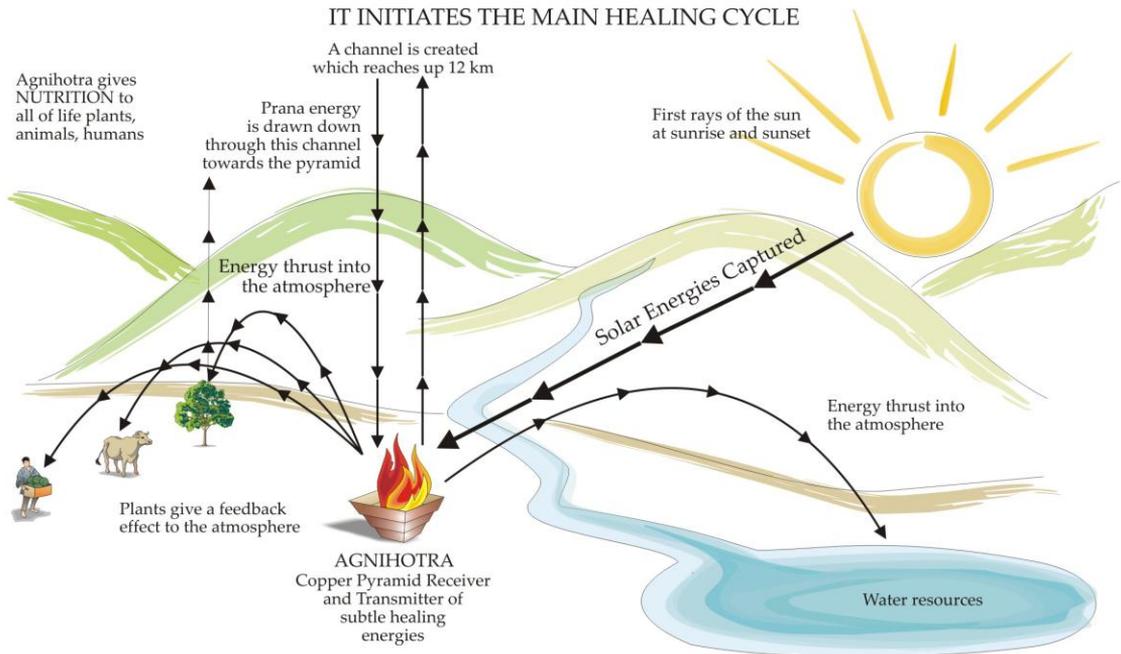
भूर्भुवः स्वः स्वाहा प्रजापतये इदं न मम ॥

## ॐ त्र्यम्बकम् मंत्र

ॐ त्र्यम्बकं यजामहे सुगन्धिं पुष्टिवर्धनम् ।

उर्वारुकमिव बन्धनान्मृत्योर्मुक्षीय मामृतात् स्वाहा ॥

AGNIHOTRA IS THE BASIC HOMA  
IT INITIATES THE MAIN HEALING CYCLE



THE PYRAMID CONFIGURATION IN A RESONANCE POINT AFFECTS AN AREA OF 80 HECTARES (200 ACRES).

The sun brings or takes the energy, which makes all conditions conducive to an anti-pollutionary change. It calms the world. The pyramid is the generator, the fire, the turbine. Just at morning Agnihotra all the electricities, energies, ethers are attracted to the pyramid in its shape. At sunset these energies are thrust out in same shape. This flood of energies at sunrise creates strong purifying effects on all levels wherever it touches the Earth.

Agnihotra amplifies these purifying effects in the following way:

This flood of subtle energies carries music with it. The morning Agnihotra Mantra is the quintessential sound of that flood. If you then prepare the fire in the prescribed copper pyramid, utter these mantras and offer the rice mixed with ghee to the fire, then a channel is being created through all the atmosphere and PRANA - life energy, is purified.

Tremendous amounts of energy are gathered around the Agnihotra copper pyramid just at Agnihotra time. A magnetic-type field is created, one which neutralises negative energies and reinforces positive energies. When Agnihotra fire is burnt there is not just energy from the fire. The rhythms and Mantras generate subtle energies which are thrust into the atmosphere by fire. Also consider the quality of materials burnt wherein lies the full effect of this healing HOMA. Much healing energy emanates from the Agnihotra pyramid. An aura energy field is created around plants during Agnihotra. Thus plants become stronger and disease resistant. When the flame dies the energy is locked in the resultant ash. This ash is used for preparing various folk medicines. Therefore, by regular performance of morning and evening Agnihotra, you create a positive energy pattern on all levels.

### HOMA THERAPY AND HUMAN HEALTH

In the ancient science of AYURVEDA it is stated:

Agnihotra renews the brain cells. It revitalises the skin. It purifies the blood. It is the wholistic approach to life. Agnihotra has the ability to neutralise pathogenic bacteria.

You sit at Agnihotra fire and breathe in the smoke, which goes quickly into the bloodstream and lungs. This has excellent effect on circulatory system and even more so if Agnihotra ash is ingested. The smoke has a good effect on the brain and nervous system.

Thousands of people all over the planet have been helped through the performance of this ancient powerful fire and use of Agnihotra ash. It helps in resolving many physical, emotional and mental problems, such as: asthma, sinusitis, allergies, arthritis, ulcers, gastritis, burns, wounds, dermatitis, gallbladder and kidney stones, depression, insomnia, nervousness, irritability, hyperactivity, fears, anger, addictions, cancer, AIDS, etc.

Agnihotra ash medicines were revived in modern times in Germany with wonderful results. Research has rediscovered many formulas based on Agnihotra ash to bring relief to medical problems.

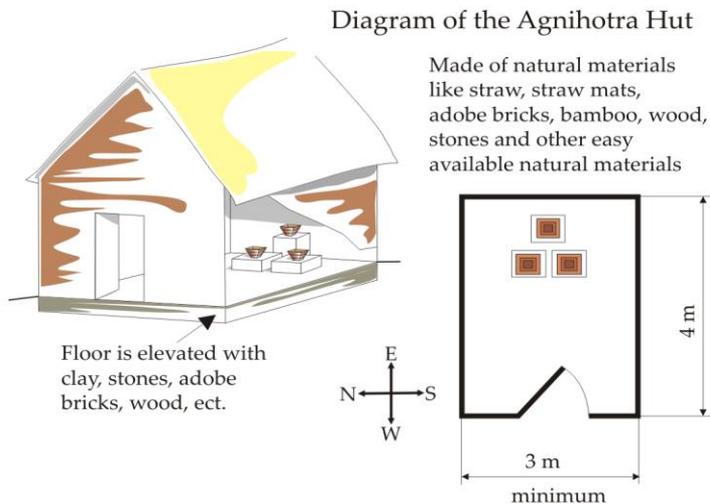
### RESONANCE POINT

Resonance Technique is a part of HOMA Therapy where simple practices are used to heal large areas of diseased land in a short time.

The same human effort is required to heal one acre or two hundred acres. One RESONANCE POINT can heal up to 200 acres (80 hectares) of land. For this 10 new pyramids are charged with mantras and placed on the farm in a special configuration by a Homa Therapy volunteer who is authorized to install resonance points. Also two simple huts are needed, built with inexpensive, natural materials, found locally, like wood, adobe bricks, mats, bamboo, stone, cane, etc. Nobody will live there. They are simply to protect the person performing the HOMA healing fires from the sun and rain and to prevent animals like dogs, cats, chickens, etc. from entering.

### ACTIVATION OF THE TEN RESONANCE PYRAMIDS

Activation of the ten pyramids is done in the Agnihotra hut only once. All pyramids are charged at the same time with fire and Mantra. After cooling, the ash is removed from all the pyramids, mixed with water and given to any sick tree or any other plants in the area.



The main pyramid which has been charged first will be buried in the Agnihotra hut, about 50 cm deep. It is important that the pyramid faces exactly the same direction as when it was activated, i.e. the side which was facing east during activation, should remain facing east when buried. The resonance pyramid on top of the column should be placed directly above the buried pyramid and also aligned

exactly to the east.

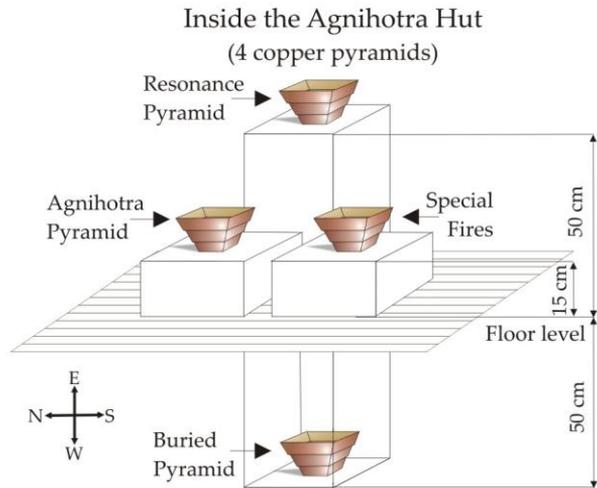
According to ancient science, as the earth rotates, contact is kept between the sun and this particular point. The practice of Agnihotra in this hut has to be started at sunset, not at sunrise. It is like switching on this point at sunset.

### AGNIHOTRA HUT

The main hut or Agnihotra hut is where the AGNIHOTRA fire is performed daily at sunrise and sunset. It is ideal to build this hut in the centre of the farm, if possible. Size should be approximately 3 x 4 meters, the longer side aligned with the EAST/WEST axis. Entrance has to be from the WEST and one will sit down facing EAST to do the fires.

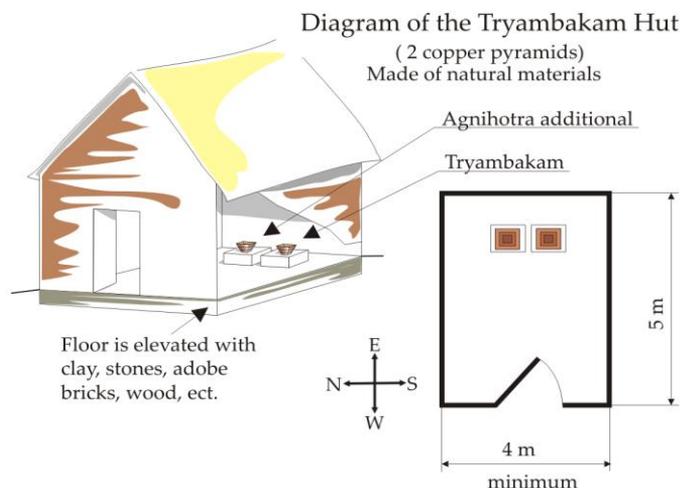
Near the EAST wall and parallel to it, a hole of approximately 50 cm depth and 30cm x 30cm should be dug. All this should be ready before

the Homa Therapy volunteers come to install and activate the resonance point.



After activation, once the main pyramid is buried, a column of mud is built on top of it, to an approximate height of 50cm and another activated pyramid is placed on top of it, directly above the buried pyramid. This way, the pyramid on the column is at heart level of the person sitting on the floor in front of the column. The pyramid on the column will not be used again, but acts as a Resonance Pyramid.

Then two of the other activated pyramids are placed on smaller mud platforms on the right and left hand side in front of the main column. The one on the left is for daily AGNIHOTRA and the one on the right is for the performance of other occasional fires. Altogether we have four pyramids in this hut.



The Agnihotra hut is a place of silence, no words, other than the Mantras, are spoken inside. Thus there is no interference with the subtle healing energies. This hut is the **Generator of Healing energies.**

### OM TRYAMBAKAM HUT

The OM TRYAMBAKAM hut is to be little larger than the first one (approximately 4x5m). It is also known as the HEALING HUT. Sick people can sit there and they will be healed automatically. It is the fire. We are doing the fires for agriculture, yet

the whole area becomes healing area for sick plants, animals and human beings. You face EAST while doing HOMA.

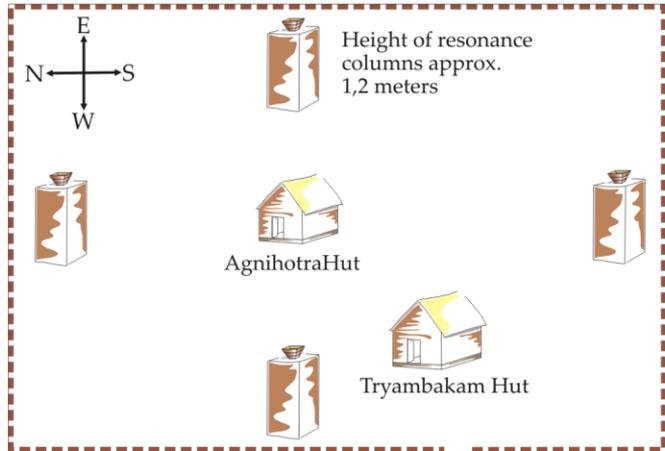
In this HEALING hut, two pyramids are to be placed on small mud platforms, the one on the right for OM TRYAMBAKAM HOMA and the one on the left for AGNIHOTRA. To get the maximum effect, four hours Om Tryambakam Homa should be performed daily and twenty-four hours on full and no moon days.

It is better to construct this hut near the entrance of the farm so that outsiders can come and go without disturbing the privacy of those who live and/or work on the farm.

**RESONANCE PILLARS**

The other four pyramids are installed on the boundary of the farm, or at a maximum distance of 500 metres exactly north, south, east and west from the central point of resonance, i.e. the Agnihotra hut.

Layout of the Resonance Point on a HOMA Farm

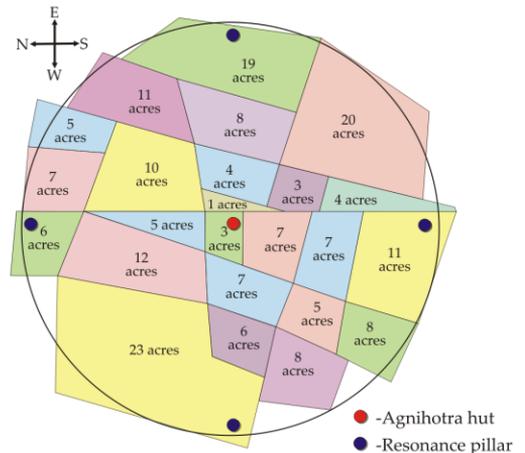


On each point a column of mud is built, the top of which should be at heart level of a person standing (approximately 1.2 metres), and an activated pyramid is placed on top of the column. Small wooden boxes, if necessary with locks, can be built on top of each column, to maintain the pyramids clean and safe, when they are not in use. It is important that no rain or any other material should enter the pyramids.

**HOMA ORGANIC FARM COMPLEX**

The same human effort is required to heal one acre or 200 acres. The following example shows a complex of 24 small farms which could cooperate as a single Resonance Point unit. This results in a sharing of the labour and costs between the farms.

To heal sick plants, to rejuvenate the earth and to improve the quality of the water, **AGNIHOTRA** should be performed daily at exact timings given by computer according to the longitude and latitude of the specific farm.

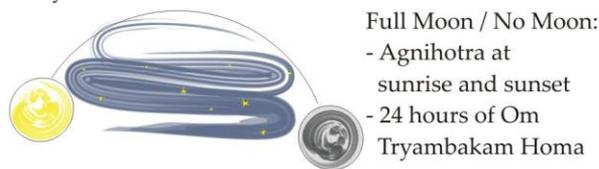


Also a minimum of 4 hours of **OM TRYAMBAKAM HOMA** should be performed daily. On full moon and new moon, 24 hours or as near as possible to 24 hours of **OM TRYAMBAKAM HOMA** should be performed.

## Fires to Heal 200 Acres (80 ha)

Daily:

- Agnihotra at sunrise and sunset
- 4 hours of Om Tryambakam Homa



Full Moon / No Moon:

- Agnihotra at sunrise and sunset
- 24 hours of Om Tryambakam Homa

These guidelines are to be followed in order to:

- heal plants from fungi, bacteria, harmful insects, nematodes, weevils, viruses, etc.
- control weeds
- produce abundant and healthy crops.

Along with the healing fires application of Agnihotra ash-water solution, Biosol and compost (e.g. vermicompost) is recommended.

The quality of the production will be superior in quantity, taste, texture, color, nutritional value, disease resistance and reduction of harvesting losses.

This is how the science of Homa Therapy works. Every farmer can become a happy, prosperous farmer again. Poverty and disease can be eradicated from the world.

### SOME IMPORTANT POINTS

- For exact calculations of sunrise/sunset Agnihotra timings we use computer software developed in Germany, which uses a certain definition for sunrise/sunset (as given by the Rishis according to Vruksha Ayurveda)
- If Om Tryambakam Homa is being performed and time of sunrise/sunset is coming, it should be interrupted briefly and Agnihotra is performed in the left hand pyramid. Immediately after the Agnihotra Mantra, Om Tryambakam Homa can be resumed.
- Keep Agnihotra ash and Om Tryambakam ash in separate vessels. **Only Agnihotra ash is used as medicine for humans, plants and animals.** Om Tryambakam Homa ash can be added to compost or put directly onto the field.
- Before entering the Agnihotra hut minimum discipline is to wash hands and feet and rinse the mouth.
- The Homa therapy volunteer will come to the farm and set up the Resonance Point. What the farmer has to do afterwards is very simple, that is daily performance of AGNIHOTRA and OM TRYAMBAKAM HOMA.
- Homa Organic Farming is totally AHIMSAK (non-violent). It is important that no animal is killed and that animals should not be bred for slaughter.
- If anyone wants to learn how to set up Resonance Points, he should first practice Agnihotra and Om Tryambakam Homa regularly for at least six months. Then he has to attend special classes for training and get some field experience with an experienced volunteer. Training will be given free.

# PREPARATION AND APPLICATION OF GLORIA BIOSOL

Mary Lee Weir  
Homa Therapy Teacher, Belize



Biosol System of fertilization is composed of processes which lead to the bio-degradation of organic matter developed within Homa atmosphere using Agnihotra Ash and its solution with Yantra.

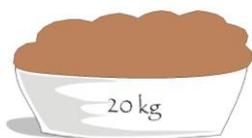
We can use Biosol liquid for foliar application to nourish plant kingdom as well as we can also rebuild the soil health with Biosol. Biosol is superior to vermiwash because we keep the organic material for bio-degradation in a bio-digester with Agnihotra ash for thirty days. Agnihotra ash will have a significant positive effect on all the materials used and will make the Biosol rich in macronutrients.



Agnihotra Ash =1kg



Copper Shree Yantra



4 x Cowdung =  
80kg



10 x clean water =  
200lt



0.5 x cow's urine =  
10lt



4 x Vermi compost  
= 80kg

## MATERIALS USED (for 500 litre tank)

Vermicompost	80 kg
Fresh cow dung	80 kg
Cow urine	10 lt
Agnihotra Ash	250 g
Shree Yantra	1 unit
Water	200 lt

## BIO-DIGESTER

The bio-digester tank may be of 500 litres or 1,000 litres in volume. It is filled with organic matter and Agnihotra ash water solution. It may be in the form of cylindrical rigid plastic tank or a cement tank with air valve, liquid outlet and a lid. Care should be taken that after filling the material in proper proportion, the lid should be sealed to avoid air leakage.

The diameter of air valve opening should be one and a half inch (1 1/2"). The air ball valve should be fixed properly. Outlet for Biosol liquid should be of six inches (6") diameter and oriented so as to facilitate easy removal of Biosol. The lid should be sealed with good quality adhesive and teflon tape.

## PROCEDURE

1. Put one copper Shree Yantra at the bottom of the tank facing upwards. (Shree Yantra geometrical design is engraved in copper and, according to traditional knowledge, is a powerful energy attractor).
2. Make two hundred litres Agnihotra ash water solution (i.e. one kg of Agnihotra ash in two hundred litres of water). Let it stand for 3 days before use.
3. Collect 80kg fresh cow dung, 80kg vermicompost and 10 litres cow urine.
4. Divide the cow dung and vermicompost into 3 piles each.
5. Mix one part vermicompost, one part cow dung, about 3 litres of cow urine and about fifty litres of Agnihotra ash water solution and stir to a slurry. This can be done outside the tank. After stirring thoroughly, pour it into the tank. (Make sure the valves are closed before pouring).
6. Repeat the same process with the second portion of the materials while stirring the material continuously and then add the second slurry to the tank.
7. Finally repeat the process a third time and add the slurry to the tank.
8. Add the remaining Agnihotra ash water solution to the tank and again stir.

In this way filling of 160kg of organic matter + ten litres cow urine + 200 litres of Agnihotra ash water solution is done. Make sure that all the material is fully stirred. Seal the lid with adhesive and teflon tape. Care should be taken that glue should not fall in the tank while sealing.

At an interval of seven days, release the air valve to release the gas formed in the Bio-digester. In this way for thirty days the biodegradation of organic matter will take place in the presence of Agnihotra Ash.

After thirty days outlet valve is opened to remove the Biosol liquid. It should be filled in air tight plastic cans of suitable sizes. The moist solid material which remains after removing Biosol liquid should be squeezed and more liquid Biosol is collected.

We may get about two hundred litres of Biosol liquid. It should be used for foliar applications with water at a ratio of 1:15 to 1:20 depending on density of plant population. We can spray Biosol liquid on any type of crop at an interval of seven days. Roughly 20 litres is required per acre per month.

If we preserve Biosol liquid in air-tight cans it will last longer, say about six months. Left over solid Biosol which is having maximum macro nutrients should be mixed with any type of organic manure at a ratio of 1:5.



# HOMA PSYCHOTHERAPY

**Dr Barry Rathner**

**Homa Therapy Teacher, Los Angeles, CA, USA**



As we humans all share the common desire to be happy, healthy and holy, when we come across ways to manifest these goals, we feel a strong compulsion to spread the word.

In India, a unique, though sad problem has evolved over the past 6 years whereby more than 200,000 farmers have committed suicide under the financial and other pressures that have been thrust upon them. Government of India has been forced to subsidize farmers to prevent further such tragedies.

Homa Psychotherapy states that Agnihotra transposes to the mind, via the agency of Prana, clarity, serenity and perspective that not only feeds a detached state of mind, but fosters self-confidence leading to a feeling of being able to overcome difficulties.

Thus besides the many benefits that accrue directly to plants, the positive results that have been observed in human behaviour and in emotional balance in several countries speak to the great value of Homa Psychotherapy for all of us.

As we have been told, do Agnihotra and Homa Therapy for your farm, but if you find you, your family and your workers benefiting directly themselves, don't blame us. Certainly we will refund your misery should you wish to have it back.

The point is this. Polluted—and worse—atmosphere affects all living beings on our planet. This includes humans, animals and plants. It is not at all surprising, therefore, that processes connected with Homa Therapy, affect positively all living organisms.

Nature is restored to balance through Homa Therapy. Outside stresses on mind are reduced through Homa Therapy.

Double-blind studies I conducted at University of Pune demonstrated that if the three sunrise/sunset Agnihotra inputs are modified in any manner, the effects are not only diluted; they are non-existent.

Timing must be exact. Mantras must be recited properly. The three materials to be burnt are non-negotiable. Size and shape of the copper pyramid similarly must be exact.

Finally, quantum physics tells us that effects of some seemingly physical processes can and do have power much greater than pure physical science indicates. This is a hint into the Vedic prescriptions that state that Agnihotra effects travel upward 12 km and 1 km in diameter. Can this be proven yet? Not definitively.

This is the challenge. But the gauntlet has been thrown down.

Were we to wait until every 'i' is dotted or every 't' crossed, it may be too late. If experiences have been noted and even anecdotal evidence is compiled that remain indisputable thus far, emergency conditions facing us all demand we perhaps compromise our procedures to the extent that we jump in, try Homa Therapy and let the proof be in the pudding!

## FOR MORE INFORMATION

[www.fivefoldpathmission.org](http://www.fivefoldpathmission.org)  
English

[www.homatherapyindia.com](http://www.homatherapyindia.com)  
English

[www.homa1.com](http://www.homa1.com)  
Spanish, English, German

[www.agnihotra.org](http://www.agnihotra.org)  
English

[www.homatherapie.de](http://www.homatherapie.de)  
German, English, Russian, Romanian, Swedish, Danish

[www.homatherapy.de](http://www.homatherapy.de)  
German, English

[www.terapiahoma.com.pl](http://www.terapiahoma.com.pl)  
Polish, English

[www.homatherapypoland.org](http://www.homatherapypoland.org)  
Polish, English

[www.agnihotra.com.au](http://www.agnihotra.com.au)  
English

[www.homatherapy.org](http://www.homatherapy.org)  
English

[www.baltohomacommunity.com/](http://www.baltohomacommunity.com/)  
English

We have poisoned our Earth, our seas and rivers, and also the air we breathe. We have developed a lifestyle totally contradictory to natural rhythms. Is it too late to mend our ways?

Shree Vasant Paranjpe, a great visionary, took a new initiative for a pollution-free future in the name of Homa Therapy following the guidelines given to him by his teacher, Shree Gajanan Maharaj from Akkalkot. Through Homa Therapy he gave us the opportunity to think ahead and to proceed thoughtfully during this turbulent period of change.

Fivefold Path Mission NGO was formed by Shree V. Paranjpe to teach the practical ways of how people can prepare for this inevitable shift. Fivefold Path Mission, now headed by Abhay V. Paranjpe, educates and works with individuals and organisations across different countries on all continents. They show us the strategies for enhancing our health and for countering pollution.

This Brainstorming Conference was organized at the instigation of Dr. R.K. Pathak, then Chief Consultant of National Horticulture Mission, and supported by the Planning Commission, Government of India. It was an effort to show how individuals and organisations can work together to create a sustainable world in the field of agriculture. It also gives advice on how to communicate across different groups and organisations, and key recommendations for future research and action.

The conference was held in Tapovan, an example of a flourishing, sustainable world, and of how to respond effectively to the greatest challenge of our time.



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