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Appeal from the Editorial Team:

If there are a lot of you reading this, you might have by now noticed that there was no newsletter released after September 2008. Well, there are reasons. The entire editorial team went on an arduous trek across the Himalayan ranges and apparently had no internet connection to publish the newsletter. On its trek, the team dueled with fire-breathing dragons and thousand head serpents. Now that it has returned victorious from its contacts, the team had decided to revive the newsletter all over again. Ok! That was a bad excuse, but at least much better than saying that the team was busy with other things.

As a matter of fact, the editorial team was plain unhappy with the quality of the newsletter and hence decided to go into a hiatus for a while. Though it has now woken up from its slumber, it is still not happy with the path ahead. The team firmly believes that to make this 'Back with a Bang 'attempt a success, it requires the readers to constantly provide feedback and suggestions for improvement. But feedback and suggestions alone does not ensure an improvement in quality, because implementation requires more volunteers to be involved. Hence this is an appeal from the editorial team for those who believe in the cause of the Save Cow campaign to put their hands up and contribute in a definite way.

What is expected of you?

What can you do best is a question you can answer better. If you have good writing skills, we are looking for you. If you are an artist, we need you. If you are good at networking, you are the person we want. Honestly, there is no just one way you can help the cause because there is a way you can contribute with any of your skills. The cause needs everything. We need volunteers who can edit, write and review

articles. We need volunteers who can contribute sketches for the newsletter. We also need volunteers who can just browse the internet in their free time, find good articles on cow and contact the author of the articles on e-mail and ask for their permission to publish them on Cow Universe. We are also looking for volunteers who can offer creative suggestions so that we can better our reach.

A profit based economy that cared less for values is in doldrums. We have disturbed nature to a point from where there may be no return. In a human history that spans millions of years, the maximum damage to nature has been done in the last century or so and the most of the maximum in the last two decades. How could that be possible? Is it a mere coincidence that we shunned a rural based economy that was primarily dependent on cows for an urban based economy driven by carbon spitting machinery? No, we are not against anything that goes in the name of development, but all that we ask for is to take time and think. Is there a way where we can strike a balance and restore sanity on earth. before it is probably too late? Hence we need you to step forward and be a part of this change, not just a victim of change.

The master says, the most dangerous person is the one who stays indifferent. While a supporter encourages you to better yourself, an opponent motivates you to better him. But indifferent people are like those 'can't say opinion holders' in newspaper polls who are of no use to the cause. They are a liability and unfortunately we probably have many of those. The cause needs you, each one of you. Write to us, we want to hear what you have got to say. Now, what are you looking at? Go ahead and write that email to cowuniverse@gmail.com.



Dharma the All pervasive:

with Cow, it is important to understand the all no need to destroy other things for our very pervasiveness of Dharma.

When we talk about saving cows, please don't understand it as saving only cows. It is just a Shree symbolism. We should carry the same feeling Mahaswamiji towards all birds, animals and the whole of mankind. Because these are what the whole nature is made of and hence it is not just important to save them but also the righteous thing to do. When we understand this we understand further up by default.

When we look things in that perspective...

Nature itself is Dharma. For the eyes to see, for the ears to hear, for the nose to smell, for the sun to shine, for the stars to twinkle, for the wind to blow and the rivers to flow - all this is Dharma, which means, Dharma is not just for us, it is for all the living and non living beings that constitute nature. So everything in this world comes under the defined boundary of Dharma. But within that boundary the state of everything is infinite and hence each of these holds a different scope of work. In that scope, every thing strives to be the best. Hence there is no limit to Dharma.

Today, the meaning of Dharma is used in a very limited sense. We understand Dharma as mere performance of prayer and worship. We have completely forgotten that these are mere practices and not constitute the whole of Dharma. We also take pride in our limited understanding and when someone interferes in our sense of understanding we resist and we fight. And by fighting we have lost the real sense of what should be done with the concept of Dharma.

If everyone and everything thinks just like us, where our life is headed to? If the sun thinks like us and stops shining, clouds stop raining, fire stops heating or cow stops giving milk, what will happen? Brainstorm...

If we think seriously, our understanding of Dharma will expand. Mind will understand realities and we can coexist and hence there is

For Inclusive Protection of all animals along no need for protection. Consequently, there is living. Then we understand the real essence of 'Live and let live'.

> Shree Raghaveshwara Bharatee

Effects of Indian cow urine on the egg production and quality

CHAUHAN2* 1

Izatnagar, 243122 India *

rs chauhan123@rediffmail.com Keywords

thickness; shape index

Abstract

Recently the cow urine has been granted U.S. patent for its synergistic properties with antibiotics and as bioenchancer. The present investigation was taken up to study the effects of cow urine on the egg production and quality of eggs in the layer birds. 50 layer birds of 20-22 weeks of age were kept under hygienic conditions in Poultry farm and were divided into 2 equal groups. Group I (25 birds) were keptas untreated control while group II (25 birds) was given distilled cow urine of Indian cow (Sahiwalbreed) @1 ml/ bird daily with water for 105 days. Daily egg production, egg weight, egg length and egg width were recorded. At the interval of 15 days eggs were collected from the groups for the study of egg quality trait like albumin index, yolk index, shell thickness, shell weight, albumin length etc., using spherometer, screwguage, and vernier caliper. The daily averages egg production of control and treated group were observed 10.75 ± 0.58 and 20.25 ± 0.59 , respectively with an increase of 87.67% in the treated group. The daily averages egg weight of control and treated group were observed 51.3 ± 1.95 and 59.5 ± 1.3 grams, respectively, which was increased 16.08% in treated birds. The daily averages shape index of control and treated group were observed 73.52 ± 1.4 and 77.07 ± 1.07 , respectively with 4.82% increase in the treated group. The averages shell thickness were 0.409 ± 0.01 and 0.45 ± 0.007 in control and treated group, respectively with an increase of 10.26% in the treated group. The mean shell weight of control and treated group were 5.8 \pm 0.35 and 6.7 \pm 0.32 grams, respectively

N. GARG1, A. KUMAR1, G. SHUKLA2 and R.S. with 15.51% increase in the treated group. The mean yolk weight was 16.9 ± 0.8 and Department of Animal Nutrition, College of 18.1± 0.7grams, respectively with 7.21% of Vety. and Animal Sciences, G.B. Pant increase in the treated group. The averages of University of Agri. &Tech. Pantnagar, 263145 albumin weight of control and treated group were 28.9 ± 1.3 and 32.97 ± 1.3 grams, Cadrad, Indian Veterinary Research Institute, respectively with 14.00% of increase in the treated group. All these results had shown significant differences in egg quality and production from the control. Thus, Indian cow cow urine; egg production; egg weight; shell urine can be used in birds to improve health as well as production traits.

Cows give fulfillment in life

Upendra Shenoy, Aruna Kumara, V. K. and Anand, A.S.

More than 80% of the rural families in India own cattle, including half of the families who fall below the poverty line. Most of these cattle are of indigenous non-descriptive breeds, considered unproductive by most educated livestock specialists. In spite of various incentives, the cross breeding programmes by the government and various NGO's have only resulted in a limited number of crossbred animals. Why is this? And what do rural people want themselves? KPP, a Compas partner organization in Karnataka, India, has started a support programme for indigenous cattle breeds.

Some 10 years ago, Mr. Purushothama Rao, a farmer expert, inspired a group of farmers in and around the village of Tumari in Karnataka, India to work towards organic farming. Mr. Rao's farm was a living example of the potential of this option, and as a group they exchanged experiences about the transition from conventional to organic farming. In 1996 this group of farmers formed the organization Krishi Prayoga Pariwara (KPP), the Fraternity of Experimenting Organic Farmers. At present, the organisation counts some 5,000 members in 60 villages. The members operate in groups and meet regularly to discuss their findings related to Grama Vikasa: holistic development based on organic farming, with a spiritual and cultural orientation.

Enhancing income opportunities

The farmers are supported by two postgraduates in agriculture, who guide them in their experimentation, support marketing of the produce, and maintain links with scientific institutions. Moreover, KPP members revise ancient texts to find practical ideas for testing and improving organic farming techniques, such as seed treatment, pest management, processing, and storage. Several projects have been undertaken over the past years. Apart from promoting organic agriculture and



establishing direct producer-consumer linkages, KPP has worked in several fields to income create additional generating opportunities for the rural families. During the past two years they have worked, for example, on a process for preparing organic Kumkuma, which is the bright red powder traditionally applied on the forehead of people. Its production has created an additional income for some 5000 rural women. Other activities include experiments to control the common disease called 'yellow leaf complex' in arecanut, one of the most common cash crops in the area, and supporting youth in vegetable growing as an alternative cash crop. To support the farmers' post-harvest technologies, small machines and equipment have been developed, such as the amla seed remover, amla flake maker, a juicer and a ginger slicer. The farmers have also decided to work on identifying and revitalizing indigenous cattle breeds with the help of a spiritual leader.

The sacred cow

In India, cows have been treated as sacred - as *Laxmi*, the Goddess of wealth, and as the cosmos in which all gods and goddesses reside – for centuries. The cow is worshipped every day and has a sacred place in family rituals, as the cow's blessings are needed to ensure a happy family life. The cow is called *Kamadhenu*, which means 'the one that gives the desire (or higher fulfilment) in life'. The cattle of India are of *Satwik* character, which indicates a state of self-contentment with little material wealth. It is believed that the soil and the environment is made Satwik by cattle, and that living with cattle will lead to an

ecological rationale and traditional dairy industry, making curds, ghee successful in India. and buttermilk. Ghandi once remarked: "The Results of crossbreeding cow was, in India, the best companion. She The farmers in KPP were disturbed by the fact agriculture possible."

Crossbreeding with Indian cattle

neck (dewlap) and between the forelegs persistency

increased Satwik character of the person, and exports, the price of cattle has gone up, and result in a more holistic society. Indian rural there is less dung available for manure and life depends on cattle for both happiness and cooking fuel. Moreover, the indigenous cattle economy. Cows are not worshipped in vain; breeds have been considered unproductive by within the sacredness of the cow lies an western standards, whilst many Indians have conservation been educated to look at cattle from a merely imperative. Cattle make use of crop waste and economic point of view. This marked the start uncultivated land, thus providing organic of various projects to bring in exotic cattle fertilizer and enhancing crop productivity. The breeds, and to stimulate cross breeding. cow is also a source of food and leather. All its Unfortunately, the indigenous milk cattle products, like urine, dung, milk, curd and breeds were not considered for these cross clarified butter (ghee) are used in agriculture breeding programmes. Instead the Jersey and and health, as well as in different rituals. Holstein Friesian breeds were introduced. Cattle power is also used in transport. And its These are of the Bos taurus type of cattle, contribution is strongly linked to the work of hump less and without the skin characteristics women, in feeding and milking the cows, which provide resistance to heat and external collecting cow dung, and nursing sick cows to parasites. This is one of the main reasons why health. Women are the food processors in the the crossbreeding with these cattle was not

was the giver of plenty, the mother of life. Not that the crossbred cattle were not performing only did she give milk, but she made well in their area. These animals require more concentrates roughage and than indigenous breeds, and often suffer from diseases and disorders, for which qualified In India there are 26 descriptive indigenous veterinarians have to be called in. Poor breeds of cattle as well as numerous non- farmers are unable to cope with the increased descriptive breeds. They are Zebu cattle of costs of maintenance and the dependency on the Bos indicus type, which are characterised external inputs, such as antibiotics and other by a hump on their backs; most breeds also chemicals. Moreover, the farmers attach have long horns and extra skin under their importance to fat percentages in the milk, of production, looks (navelflap). This extra skin surface, together temperament of the animals, and are not with other special characteristics of the skin impressed only by high yields. The farmers of and hair, indicates their capacity to resist heat KPP concluded that except for a few and external parasites. Well-known local milk incidences of success, crossbreeding at large breeds in India are Sahiwal, Gir, Red Sindhi has been not economically viable. This made and Rathi. Other known local breeds have them decide to look at local cattle breeds different capacities, like extra resistance afresh. A survey conducted by a KPP team against heat and external parasites, resistance found that, for example, one local breed to diseases, and the ability to thrive and known as Malnad Gidda can yield between 3 produce under stressful conditions. But, over and 5 litres of milk per day, which is generations there has been a change in the comparable to 4 to 6 litres of milk yielded by position of cattle. Increased beef exports have cross breeds in the KPP project area. Through led to a decline not only in livestock numbers, selection and careful breeding the yields of but also in the rich diversity of cattle breeds this breed can be improved. This indicates the known for their hardiness, milk production potential of improving indigenous breeds in a and draught power. This decline of animal natural way. The National Dairy Research wealth is seriously affecting the local economy Institute in Bangalore has expressed its and rural livelihoods. Because of the increased interest to support this programme. KPP also preserves bio-diversity.

Working with local breeds

relevant literature products, disseminating and information to interested farmers. booklet 'Kamadhenu', which describes the Pradesh, the Vechur from Kerala, characteristics of the four main local cattle Kangayam from Tamil Nadu, pictures of many other Indian cattle breeds. development." The booklet gives several preparations from KPP Ayurvedic medicine based on cow products, Krishinivasa, Kuruvalli and their effect on human health. Examples Thirthahalli 577 432, KARNATAKA, India are: Panchagavya, a combination of five tel: +91 81 81 28340, fax: +91 81 81 28294 products - urine, dung, milk, curd and ghee - e-mail: aruna kpp@yahoo.com/ used in cancer treatment, and the cow dung prasadas@hotmail.com based soap to cure certain skin problems.

Breeding centre

In the project area of KPP a local spiritual leader, Sri Raghaveshwara Bharathi Swamy, guides a cattle conservation and breeding centre situated on the 120 acres of land belonging to the monastery. He is also social implementing various other development programmes for around 15,000 families. KPP has brought animals of various indigenous breeds, selected by a veterinarian and a local cattle middleman, to the Sri Swamy (right) exchanges views about

listed statements of the farmers regarding the selection, breeding and distribution of indigenous cattle: they are more suited to the local breeds, while also producing a variety of varying local agroclimatic conditions, feed on cow-based products for human health. They local plants, and increase soil fertility. Their are supported by experienced Ayurvedic milk is rich in vitality and nutrients, and local doctors and by a research institute in Nagpur, veterinary practitioners can help the farmers Maharastra State. In July 2001, the new cattle to maintain the health of the cattle. This shed of the monastery was inaugurated with a ensures employment for the local people and ritual to bless the newly arrived cows and to get blessings from the cows in return. KPP will be able to reach more families with the The KPP local cattle breed conservation and guidance of this spiritual leader, as he is improvement project has the following visited by hundreds of disciples every day. objectives; to study the present-day situation. With his support the booklet 'Kamadhenu' will of local cattle breeds, to document traditional reach a large section of the population, and veterinary practices and to experiment with thus enhance the process of reflection on the them, to revitalize cattle fairs, to upgrade and value of local breeds and cow-based products. improve selected local breeds, and to Sri Swamy says: "We want to conserve the distribute the cattle of the improved local local breeds, because the cross breeding breeds to interested farmers. Moreover, KPP is programmes have harmed this society a lot. on The local breeds are disappearing along with ethnoveterinary medicine, documenting the the indigenous knowledge attached to them. role of indigenous cattle in family life, The cattle grazing land is also disappearing revitalizing the local health traditions based on and farmers now depend on others for many all things. Here, we have animals of several The Indian breeds that are threatened by findings of this KPP study is documented in a extinction, like the Punganoor from Andhra breeds of Karnataka State: Amrithmahal, Krishnavalley from Karnataka. Nature and Hallikar, Krishnavalley and Deoni. It also people want evolution and not revolution. supplies information and includes good Evolution is a holistic way. For us this is real



monastery. The centre is playing a key role in endogenous development with farmers, KPP staff and visiting guests