



**Celebrating 15 years of Excellence,
Innovation, Progress, Dedication, Teamwork,
Collaboration and Achievement**

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WINTER MANAGEMENT

Winter is round the corner and it traditionally augurs well for the poultry industry, as it is the start of the festive season punctuated with festivities till early next year, marked with increased demand and good consumption of poultry products. During this time all of the country, especially the northern and central states, experiences a drastic drop in temperatures with some areas reaching even 0°C and a change in weather from warm to cold.

Extreme winter conditions like low environmental temperatures, poor ventilation, and reduced day length, pose severe challenges to poultry farmers. Winter in northern and central regions coupled with rains down the south due to the North East monsoon adversely hamper productivity of both broiler and layer birds.



Dr. Jayasteph
Head - Technical Services
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Diseases occur at any time of the year but the incidence of respiratory diseases are higher in winter months due to exposure to severe cold stress and damage to respiratory mucosa predisposing birds to Bronchitis, Coryza, CRD, Avian Influenza, etc. Managing winter effectively and reducing impact of cold stress on birds will ensure reaping good returns.

This makes it essential for poultry farmers to adopt certain winter stress reducing strategies to overcome economic losses associated with cold stress. Some of the most critical factors which need foremost attention during winter are as follows:

BROODING



Ensuring optimum temperatures in the poultry house is a basic prerequisite for better production and health of birds. The immature thermoregulatory mechanism and scant feathering of chicks makes them extremely susceptible to cold stress. Initial days of life are critical for chicks as they have a poor ability to maintain body temperature until they are of 12 – 14 days of age and maintaining standard temperatures is vital.

Chicks should be delivered preferably during the day for better comfort and less stress. Preheating the house, before delivery of the chicks, is vital as house temperature at chick placement is important. Farms have to ensure that all brooding equipment, like heaters or pots, are kept on for at least 5 hours, so that the house is pre-warmed to about 35°C and that the temperature & relative humidity are stabilized before 24 hours of chick arrival. Installation of curtains in the side walls can be done without restricting ventilation to maintain brooding area temperatures.

A rule of thumb for the first two weeks, if the house feels comfortable for you, then it's too cold for the chicks. The curtain can be lowered down half way or completely during the day time since less environmental temperature is required for growth in the later stages.

Temperatures fall rapidly, especially in the late afternoon and early mornings. The heaters should be maintained in sync with these temperature fluctuations. Chick's behavior is the best indicator and must be monitored regularly to check if they are comfortable. Equal importance needs to be given to ventilation of the brooding house and curtain management is the key.

The idea is to maintain warm temperatures without compromising air quality and not allowing gases to accumulate near brooders.

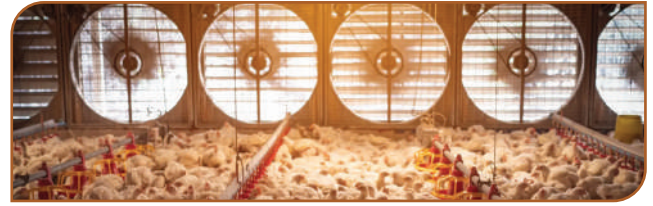
VENTILATION

Birds must have adequate fresh air for optimum growth and performance and they need to be protected from chilled winds or drafts across the poultry house. Good ventilation is essential for maintaining air quality, temperature and proper, regular maintenance is critical to ensure that the systems are working properly.

Low air temperatures & high humidity cause a drop in the floor temperatures and increase moisture levels in the litter. Birds release moisture by expiration & droppings which increase the litter moisture and cause Ammonia build up inside poultry houses causing respiratory problems. Elevated Ammonia levels damage respiratory cilia and birds easily succumb to respiratory infections.

Ammonia levels should never exceed 20 ppm. People, who spend a lot of time in poultry houses, easily tend to get desensitized to the smell and may not realise that Ammonia levels are too high for bird comfort.

So, it is important to measure ammonia levels in the house and to observe the birds regularly to ensure they are comfortable and visually checking the birds is the best way to confirm if the house conditions are fine.



FEEDING MANAGEMENT



Birds use feed mainly for growth, maintenance and production. Environmental temperatures less than the bird's lower critical temperature necessitate increased metabolism which will divert critical nutrients in feed away from growth and proper development of the immune system. The expected peak production gets retarded and birds perform poorly.

Low environmental temperatures in winter increase the need of energy for maintenance of body temperature and consequently increased feed intake. However, the increased consumption may also lead to unnecessary intake of other costly nutrients which are not required by the birds at higher levels. This has to be

rectified either by increasing energy density of the feed with addition of oil or fats while maintaining other nutrient levels or by maintaining constant energy levels and reducing the levels of other nutrients slightly to ensure nutrient balance. Poor energy & nutrient balance will cause a slight increase in egg size and wastage of nutrients.

The number of feeders should be increased and feed should be constantly available in adequate quantities throughout the day to have proper growth especially in the night and early morning hours.

WATER MANAGEMENT

Birds consume less water during winter. Water offered should be warm, fresh and clean.

Chick drinkers should be filled with clean, warm water and placed in position near the brooders and ensure that the water is between 20 – 25°C.

In areas where ambient temperatures approach zero, water lines have to be routinely inspected for freezing to avoid blockage of water.

Also, the reduced water consumption has to be accounted for in calculating the mixing ratios for water medications, vaccines, supplements and water has to be



withdrawn prior to providing water medication to ensure each bird receives the appropriate dose. Leaky nipple drinkers and water channels have to be checked and corrected. Water spills need to be spotted and roof has to be inspected for leaks

LITTER MANAGEMENT



More moisture is retained in the winter due to less evaporation and this creates dampness in the house. The depth or thickness of the litter or bedding material in broiler houses can be increased by a few inches to provide a warm and cozy environment to the birds. This provides better insulation from cold temperatures, the cold floor and absorbs moisture. Poor litter quality due to inadequate ventilation is favorable for bacterial growth and damages the foot pad increasing the incidence of feet problems in the flock. Damp litter increases bacterial growth in the litter and elevates ammonia levels causing discomfort.

Regular raking of the bedding material at least twice a day helps avoid cake formation.

Additionally, preventive vaccination to protect against respiratory disease risks is essential taking into account past history. Also, winter is characterized by decreased photoperiod and this needs to be compensated to avoid slump in egg production.

Winter disturbs the physiology of birds adversely affecting their performance. The above mentioned management strategies will certainly alleviate most of the ill effects of cold stress help reduce losses and increase the poultry farmer's returns.

Provet Celebrates 15 Years of Excellence in Animal Health



Provet proudly marks its 15th anniversary—a major milestone in our mission to advance animal health and wellbeing. For over a decade and a half, we have been dedicated to providing innovative solutions in veterinary care, building a strong foundation of trust, quality, and commitment.

Our anniversary celebration on 14th October 2024 kicked off with lighting up the ceremonial lamp, symbolizing our bright future and our commitment to continued excellence. This was followed by a joyful cake-cutting, where we gathered as one team to reflect on our journey, achievements, and shared vision.

We had a heartfelt moment during our employee appreciation ceremony, recognizing the invaluable contributions of our team. Their dedication and hard work have been the driving force behind our success, and we were honoured to celebrate the individuals who make Provet a leader in veterinary care.

The day was filled with vibrant activities, including exciting competitions, team-building events, and entertainment that showcased the strong Provet spirit. From friendly rivalries to moments of collaboration, each activity celebrated the camaraderie, resilience, and passion that define our company culture.

Together, we have built a legacy of trust and innovation, and we're eager to continue this journey, setting new standards in animal health and creating a healthier future for animals everywhere.

Here's to many more years of success, growth, and making a positive difference!

Gallery



Role of Probiotics in Aquaculture

Dr. Vijay Sundar Deva
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Introduction

Probiotics in aquaculture involves a multifaceted approach, from understanding their role in aquatic health to optimizing their application for better outcomes in both water quality management and animal performance. Here's a comprehensive improvement guide for incorporating probiotics into aquaculture systems:

1. Understand the Role of Probiotics in Aquaculture

Probiotics are live microorganisms that, when administered in adequate amounts, confer a health benefit to the host (e.g., fish, shrimp, or other aquaculture species). In aquaculture, they are primarily used to:

- **Enhance gut health:** Promote a balanced microbiome in the gastrointestinal tract of the animals, which helps in digestion, nutrient absorption, and overall health.
- **Improve immune response:** Strengthen the immune system, making organisms less susceptible to diseases, including bacterial and viral infections.
- **Control harmful pathogens:** Outcompete harmful microorganisms (e.g., *Vibrio*, *Aeromonas*) for space and resources, reducing the risk of infection.
- **Improve water quality:** Some probiotics can degrade organic waste in water, lowering ammonia levels, reducing pathogen loads, and improving overall water quality.
- **Increase feed efficiency:** By supporting better nutrient absorption, probiotics can improve feed conversion ratios (FCR), leading to more efficient growth.

2. Choosing the Right Probiotic Strains

Not all probiotics are the same, and choosing the right strain for your specific aquaculture species and system is critical:

- Regular maintenance dosing can help maintain a stable microbiome.

3. Mode of Delivery

- **Feed-based delivery:** Probiotics are often incorporated directly into the feed or sprayed onto the feed before being provided to the animals. Ensure that the probiotics are stable during feed processing.
- **Water-based delivery:** Probiotics can be added to the water, where they can colonize the aquatic environment and compete with harmful microorganisms.
- **Spray applications:** For shrimp or mollusks, probiotic sprays are sometimes used to deliver live bacteria directly to the animals' exoskeleton or shells.

4. Monitoring and Adjusting

- **Water quality monitoring:** Monitor key water quality parameters (ammonia, nitrite, nitrate, dissolved oxygen, pH, temperature) when introducing probiotics to ensure the environment is suitable for both the probiotics and the aquaculture species.
- **Health indicators:** Monitor the health of your stock regularly (e.g., feed intake, growth rates, disease resistance, and general behavior) to assess the effectiveness of the probiotics. Look for improvements in survival rates, feed conversion ratios, and overall growth performance.
- **Microbiome analysis:** If possible, conduct periodic microbiome analysis to understand how probiotics are affecting the microbial community in the gut of the organisms and the surrounding water.

5. Best Practices for Using Probiotics in Aquaculture

- **Integration with good management practices:** Probiotics should be seen as a part of a broader, integrated approach to aquaculture management that includes good water quality, proper nutrition, and disease prevention. They are not a "quick fix" but part of a sustainable aquaculture system.
- **Combination with prebiotics:** Prebiotics (non-digestible food ingredients that promote the growth of beneficial bacteria) can be used alongside probiotics to enhance their effects. The combination of probiotics and prebiotics is often referred to as synbiotics.
- **Avoid overuse of antibiotics:** Overuse of antibiotics can damage the beneficial microbiome and reduce the efficacy of probiotics. Implement probiotics as part of a strategy to reduce reliance on antibiotics by promoting natural resistance to diseases.

6. Research and Continuous Improvement

- **Scientific research:** Keep up with the latest research and advancements in probiotic applications in aquaculture. New strains and formulations are constantly being developed, offering improved performance and benefits.
- **Trial and error:** Given the complexity of aquaculture systems, it may take time to determine the most effective probiotic products and application methods for your specific conditions. Conduct trials and observe the results.
- **Collaboration with experts:** Work closely with aquaculture consultants, veterinarians, and product manufacturers to ensure the probiotics you're using are appropriate for your system and stock.

7. Regulatory and Safety Considerations

- **Regulatory compliance:** Ensure that the probiotics being used are approved by relevant regulatory bodies (e.g., FDA, EU authorities, etc.). Some probiotics may require specific certifications or compliance with food safety standards.
- **Safety:** While probiotics are generally considered safe, it's important to ensure that the strains you're using are free from pathogens and are non-toxic to the target species.

Conclusion

To improve the use of probiotics in aquaculture, a comprehensive approach is essential. This includes choosing the right strains, optimizing their application, and integrating probiotics into a broader health and management strategy. Regular monitoring and continuous learning are key to maximizing the benefits of probiotics for healthier, more efficient aquaculture systems. By doing so, you'll not only improve the health and growth of your stock but also contribute to the sustainability and profitability of your aquaculture operations.



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our festive spirit and joy*





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World Egg Day Celebrations



Since its inception in Vienna in 1996, World Egg Day has been celebrated globally on the second Friday of October, honouring the egg's incredible nutritional power. This year's theme, **"United by Eggs,"** celebrates how eggs bring people together across cultures, showcasing their role in global nutrition and their universal appeal.

Eggs not only offer an environmentally friendly source of protein, but they also foster a sense of unity and community. Their presence in cuisines worldwide makes them a symbol of cross-cultural understanding and solidarity.

We, at Provet, celebrated the World Egg Day by distributing eggs across the country. Our team joined hands to distribute eggs at schools, orphanages, elderly homes, and public places, proudly promoting this year's theme.

Through these efforts, we aim to educate communities on the nutritional value and affordability of eggs. We deeply appreciate the enthusiasm of our employees in supporting this cause.

We are committed to giving back to the community and fostering a healthier future. We thank everyone who participated and made this initiative a huge success!



GALLERY



The truth about puppy mills: What is unethical and illegal dog breeding in India?

The sad truth is that we live in a world where numerous facilities exist that directly or indirectly contribute to perpetuating animal abuse. Puppy mills are a perfect example. It is here that dogs are literally mass produced so that the breeders can rake in as much profit from the offspring as possible.

While responsible breeders understand the importance of the parents' health and careful genetic pairing to produce strong litters that will improve the breed, the operators of these puppy mills eschew quality in favour of quantity. Without the proper husbandry practices being followed at these mills, serious genetic flaws spread throughout the breeding pool unchecked. More important is the abuse that runs rampant at these facilities.

Let's collectively open our eyes to the concerning issues of unethical and illegal dog breeding in India, which subject these innocent animals to unimaginable suffering. Despite laws, there seems to be little change in behaviour of dog breeders.



Legal and Illegal Breeding:

In contrast to many other regulations concerning animals, the legal framework concerning commercial dog breeding in India is highly elaborate and encompasses a thorough perspective on the matter.

One of the key issues in dog breeding in India is the prevalence of illegal and unregulated breeding operations, which often operate without regard for the welfare of the dogs or the laws governing their operation. This can result in the mistreatment of dogs, the spread of disease, and the proliferation of genetic disorders.

Estimating the count of these unlawful breeding centres is challenging, yet the magnitude of the issue becomes evident through a simple perusal of social media platforms. Within many 'dog adoption groups', one can observe many daily posts featuring images of purebred puppies, providing insight into the scale of the problem.

Dog breeding cases in India are less registered in number as these breeders are mafias, they threaten complainants, and despite having an illegal and unlicensed breeding industry fewer people are still able to continue to commit cruelty against animals, especially dogs, as they fear no law. Therefore, stringent laws against animal cruelty need to be implemented.

Pay Heed to the Poor Animals Cry:

In order to mint more money, unethical breeders make life hell for these dogs. The female is forced to breed more than twice a year, which is rape. They are kept in unhygienic conditions, puppies are taken away from mothers while they are newborns, they are sold at a very young age. Mother dogs are unable to feed milk to their puppies. They are not cleaned postpartum. They are seen being kept in bloody and dirty conditions after birth, even after days.

The breeding industry is just another horror. Overcrowding, disease, and inadequate access to even the most basic veterinary care are prevalent in these types of operations, leading to widespread cases of horrific negligence and malnutrition. Untreated medical conditions such as tumours, birthing complications, respiratory infections, flea infestations, heartworms, and digestive problems are all common side effects to the lack of care and the unsanitary environment.

Stuck within the confines of these germ-filled warehouses, the dogs are simultaneously deprived of exercise and grooming. Many of them are forced to live either on wire or slatted flooring that cuts into their paws and legs, leaving wounds to fester into cysts and infections. Often the cages are stacked in columns to save space. When this happens, all of the waste from the higher cages falls on the dogs below, further leading to the spread of disease. Ventilation is often poor, the overall habitat is a cesspool of filth with minimal to no lighting, no access to outdoors, and barely even room to breathe.

The females are used as little more than housing units for puppies. They are rarely given adequate recovery time between births. Once they are physically depleted to the point where they are unable to reproduce anymore, they are often killed and disposed of to make room for new females. The male dogs used for stud fair no better.

Many dogs spend their entire lives, from birth to death, crammed in these conditions, never once feeling sunshine on their face, feeling the grass beneath their feet, or breathing a single breath of fresh air.

Who is Responsible for this Pathetic Situation?

Breeders are only motivated by the citizens as everyone wants to have a breed of dog as a pet and not Indie. If a breeder is

operating a premises, commercial kennel or pet shop without a valid license or valid registration certificate, it will be a violation of the rules.

In India, a trend has taken hold—one that involves the buying of exotic dog breeds, like Siberian huskies and St. Bernards, in environments ill-suited for their needs. As these foreign breeds gain popularity, a concerning consequence emerges: the native Indian dogs, once revered for their adaptability and resilience, find themselves overshadowed and left behind.

One can witness the evidence of this trend with a mere scroll through social media. Posts showcasing imported breeds flood platforms, while the local dogs, once celebrated for their loyalty and compatibility, are relegated to the background.

The cruelty imposed on these exotic breeds should not be ignored. Not only the weather conditions but they also go through much more in the cruel puppy mills. Demand for purebred dogs is why illegal dog breeding flourishes.

Puppy mills are legal in India but the cruelty that happens in them is not. The conditions the dogs are kept in are beyond our imagination. Hundreds of dogs die in these mills and yet the demand to buy a dog is not decreasing.

It is we who have to educate ourselves that if it is for the love for the animal or needs for a companion, we promise we would feel the same with an adopted one.

Breeders Hardly Follow the Basic Practices:

The term 'mill' is a well-known expression that conveys the notion of a factory, processing facility, or workshop. Similarly, a 'puppy mill' can be likened to a factory designed for mass dog breeding, catering to a variety of breeds and sizes. In the context of India, it serves as a hub for churning out Western dog breeds in large quantities, aligning with the fervent demand for these exotic breeds.

Adhering to the laws and regulations set forth by the Government of India, ethical breeders fulfil the necessary breeding criteria. However, their presence remains limited, whereas unethical breeders have come to dominate the market, prioritizing profit over the well-being of the animals.

The breeding industry is a complete business. The saddest part is that no one cares about that, all they see is a cute retriever, but the reality is that no one cares where the pup came from or what is the condition of the mother.

Until we do not become more humane towards the animals, it won't be possible to stop this. We as individuals have to say this loud 'ADOPT DON'T SHOP'.

Why is Awareness Important?

Numerous individuals might lack awareness regarding the deplorable conditions found within puppy mills. Educating others on the importance of responsible pet ownership stands as a crucial endeavour.

Opting to either adopt from nearby shelters or exclusively obtain pets from ethical breeders emerges as a vital step. Social media platforms provide an excellent avenue to enlighten family and friends about the harrowing experiences endured by female dogs

confined within these facilities throughout their lives.

It is imperative for people to recognize that the well-being of a litter of puppies is intricately linked to the health of their mother.

Everyone is aware of the cruelty and the harsh reality behind these breeder kennels, but they still wish to choose the wrong path.

What are the Requirements by Law?

- Healthy mature female dogs that have reached 18 months should only be bred. They shall be certified as healthy by a licensed veterinarian at least 10 days before breeding.
- No female dog should be forced to produce puppies in 2 consecutive breeding seasons. This should happen only once a year. Female dogs should not be forced to produce more than 5 times during their lifetime. Female dogs should not be mated after 8 years of age.
- Male dogs should be healthy and mature and should be allowed to mate only after they have reached 18 months. Also, he should be certified by a licensed veterinarian at least 10 days before breeding.
- All the breeders shall have a full record of the puppies that the male or female dog produces with their vaccination details. Tail docking, ear cropping, or any mutation of the puppy is strictly banned and forbidden.

Change is Required:

Puppy mills often evoke a sense of sadness, unless they strictly adhere to regulations. However, such lawful and ethical establishments are unfortunately few in number. This underscores the importance of personally visiting the breeding facility from which you intend to acquire a puppy. Merely making a substantial payment to an online breeder or a pet store is insufficient.

Furthermore, ensuring that the puppy is at least eight weeks old and ready for a new home is crucial. Premature separation can lead to aggression and potential behavioural issues as they mature. It's also considered to avoid subjecting the mother to separation anxiety before she is emotionally prepared to part ways with her offspring.

It's time we prioritise educating people about Indies, even if you can't adopt them, be more mindful and learn to coexist with them. If you can't help, you can always ask for it. A lot of people cannot adopt, so we advise them to start feeding local dogs and do their bit. Let's educate people about 'each one feeds one'.

ADOPT, DON'T SHOP:

If you're seeking companionship and aiming to enhance your life, inviting a presence into your home that offers unwavering affection and yearns for a forever family could be a rewarding decision. Opting for a shelter dog or an Indie pup presents a wonderful opportunity.

Indian street dogs exhibit a capacity for love that surpasses expectations. Their affectionate devotion is a constant source of comfort and support. Also going 'Vocal for Local' includes these fur babies, too. Kindness and compassion for these animals also goes a long way.

Definition of the Real Richness

A young man once asked an old monk, "How do you define a rich person?"

The monk closed his eyes, took a deep breath, and asked, "Can you repeat your question once again?"

The young man repeated, "How do you define a rich person?"

The monk replied,

- Rich are those who can see and appreciate the rich nature around them.
- Rich are those who can say positive words that inspire people.
- Rich are those who can listen to advice and convert it into positive results.
- Rich are those who are mindful and free from worries.
- Rich are those whose hearts are filled with compassion.
- Rich are those who can extend their hand to the needy.
- Rich are those who can walk an extra mile for others.
- Rich are those who can walk in others' shoes.
- Rich are those who are free from thinking about the standard of living and focus on the quality of living.

After stating the above points, the monk asked, "Hope I have answered your question."

The young man said, "Yes, but I have certain doubts, what about people who cannot see, speak, hear, or walk?"

The monk replied, "Those who cannot see the negatives, hear the negatives, speak the negatives, and walk all the way to see the negatives around them are rich in their own ways.

My dear young man, when we equate wealth to be the symbol of richness, the richest man will still feel poor because he will always live with a scarcity mentality of acquiring more wealth.

Moral of the story:

Remember, there can be more to acquire, but we all have an uncertain lifespan. Instead of wasting our lives running behind creating wealth beyond our needs let us learn to live with peace.





Thoughts to Remember

Supreme Court of India unveils a new statue of “Lady Justice”

The Supreme Court has unveiled a new statue of “Lady Justice”, reimagining the image, typically a blindfolded woman holding a set of scales in one hand and a sword in the other, that is synonymous with legal practice around the world.

The new, six-foot-tall statue in the judges’ library is of a saree-clad woman with no blindfold, holding scales and, instead of the sword, a copy of the Constitution of India.

The blindfold in the classic rendition has been popularly understood to represent the impartiality of justice, whereas the new statue with unimpeded vision is meant to signify that “Law is not blind; it sees everyone equally.”

The imagery of Lady Justice can be traced back to Greek and Roman mythology. Themis, one of the 12 Titans born to Gaea and Uranus according to works of the Greek poet Hesiod who lived circa 700 BCE, is known as the goddess of justice, wisdom, and good counsel — and is often depicted as a woman holding scales in one hand and a sword in the other.



ISRO Chief Dr.S. Somnath receives the prestigious IAF World Space Award for Chandrayaan-3



The award recognizes India's contributions to space exploration and its growing prominence in the global space community. The Chandrayaan-3 mission was a remarkable achievement, as India became the first country to land a spacecraft near the Moon's South Pole on August 23, 2023.

The award ceremony was held in Milan, Italy.

The IAF said that the Chandrayaan-3 mission exemplifies India's commitment to excellence and the potential of space exploration.

Dr. Somanath's leadership was instrumental in guiding the mission to success, overcoming the challenges faced by its predecessor, Chandrayaan-2.

The mission not only demonstrated India's technological prowess but also provided valuable scientific data, including the detection of sulphur and other elements in the lunar soil.



Excellence through Innovation



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