

General Guidelines for Biosecurity at Central Poultry Development Organizations

(Basic Tenets can be applied to State poultry farms also)

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Executive Summary

Biosecurity is an integrated approach encompassing policy and regulatory frameworks to analyze and manage risks in the areas of animal health and food safety, including associated environmental risk. The liberalization of global trade in agriculture since 90's has brought in many challenges apart from opening up new avenues for growth and diversification. Pests do not recognize geographical boundaries and liberalization of trade has opened new routes for animal diseases and pests through import of animal (livestock, poultry) and animal products. Many of the pests have a potential to establish and to cause serious economic losses.

An integrated biosecurity programme is an application on logical and sound principles specific to an enterprise, monitoring of disease status, evaluation of ongoing poultry farm operations on continuous basis with an objective to contain the diseases at bare minimum level.

After lessons from Avian Influenza outbreaks at CPDO(ER), Bhubaneswar and CPDO&TI(SR), Hessarghatta, we must implement, as far as possible, an impeccable biosecurity plan to prevent any future disasters. These Standard Operating Procedures(SOPs) are proposed to act as roadmaps for keeping a close vigil and maintenance of biosecurity. The SOPs are structured under following heads:

- i) Farm Location and Design
- ii) Restricted Access to Birds
 - i. Movement restriction in general at farm level
 - ii. Movement restriction at poultry shed level
 - iii. Restrict vehicle entry in the farm area
 - iv. Restriction to visitors
 - v. Restriction to farm workers
 - vi. Restriction to carriers of transmission of infection in the farm
 - vii. Multiple Species rearing and precautions
3. Isolation and quarantine of new birds
4. Cleaning and Sanitation
 - a. Cleaning and disinfection of farm equipments
 - b. Cleaning and disinfection of poultry houses
 - i. Complete or terminal house cleaning
 - ii. Partial/concurrent house cleaning
5. Personnel hygiene
6. Hygienic disposal of poultry manure
7. Disposal of dead birds
8. Feed safety
9. Period of rest or Rearing of single age group
10. Medication/ vaccination of birds
11. Flock profiling
12. For high risk/ Alarming situation
13. Documentation and Record keeping

An indicative checklist for implementing an effective poultry biosecurity plan is also added for quick reference. It has also been decided to undertake the following actions on top priority:

- 1) Installation of bird reflectors strategically to keep wild birds / water birds / crows, etc away from the farm area.
- 2) To immediately procure and install high frequency sound devices to divert the birds away by sound waves.
- 3) Immediate report of abnormal mortality in poultry stock at following e-mail address:-
asinghnanda@gmail.com, rs_rana9@yahoo.co.in, jspf-dadf@nic.in,
s_bhoosreddy@yahoo.com, jcpoul@nic.in, jclp@nic.in,
pkmathura@yahoo.co.in, sujit.nayak@nic.in

Nearest RDDDL should also be informed to collect samples / material as per their norms and protocols for disease diagnosis both for on spot with the help of Kits and also for onward transmission to HSADL, Bhopal.

- 4) Immediately stop sale-purchase / inflow-outflow of all poultry products, feed or feed ingredients, etc, if disease is even suspected or diagnosed in any shed or farm till final test results of disease diagnosis is done and regarding Notified diseases / Avian Influenza after confirmation from designated / HSADL, Bhopal.
- 5) Disposal of dead bird/s in a bio-secured manner and for Notified diseases as per the Action Plan issued by DADF, GOI.
- 6) If any mortality reported in wild bird / water birds / crows, etc in farm campus the Post Mortem of such birds must not be conducted at all in farm area. The Department and the RDDDL should be informed immediately and the RDDDL should be requested to collect the samples as per their protocol for diagnosis or for onward transmission to HSADL, Bhopal for diagnosis, as per the requirement to be decided by the competent authority.
- 7) If Avian Influenza or Notified disease is suspected or confirmed at any farm demobilize the staff of the farm with immediate effect.
- 8) Workshops to be conducted by all the CPDO's and State Farms on SOP Bio-security and Action plan on Avian Influenza-2012 forwarded by the DADF with all staff of CPDO & CPPTC inviting speakers from the Departments of Poultry Science, Pathology, Medicine, Epidemiology, Veterinary public health from State Veterinary University / College and also from RDDDL. In such workshops the State Government officials should also be invited.
- 9) Whenever there is a modification or updation of the General Guidelines of Biosecurity or the Action Plan on Avian Influenza such workshop is to be conducted within 15 days from the date of Notification or issuance.

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Biosecurity Guidelines and checklist

Indicative Quick Checklist for Implementing an Effective Poultry Biosecurity Plan

Implementing any of these suggestions will reduce the risk of disease entry. Each additional step implemented will further reduce biosecurity risks.

- Secure perimeter; Keep “restricted” signs posted at drive entrances
- No trees or dense foliage around sheds, no roosting site for wild birds
- Restrict entry to essential personnel and record entry.
- Keep poultry houses locked; fasten from inside while inside.
- Provide boots and coveralls for staff and visitors for each shed.
- Staff should change into dedicated/disposable boots and coveralls upon entering each different shed. Clean footbaths may be appropriate within a shed if changed regularly.
- When caring for flocks, the resident flock manager should keep clothing (including shoes, boots, hat and gloves) separate from those worn off the farm.
- After caring for the flock, change clothes completely and wash hands and arms before leaving premises.
- Flock manager and other caretakers should not visit any other poultry flocks.
- If possible, provide show facilities for visitors.
- Remove poultry mortality daily. Store or dispose of them in an approved method.
- Ensure staff and visitors are aware of the dangers of raising or visiting other avian species and their contact with your flock.
- Essential visitors such as owners, meter readers, service personnel, fuel and feed delivery drivers, and poultry catchers and haulers must wear protective outer clothing, including boots and headgear, before being allowed near the flocks.
- Monitor vehicles entering premises for poultry pickup or delivery, feed delivery, fuel delivery, etc., to determine if they have been scrubbed down and the undercarriage and tires spray-disinfected before entering.
- Minimize entry of equipment, supplies, etc. and take appropriate precautions such as disinfection, removal from shipping boxes, etc.
- Clean and disinfect all coops, crates and other poultry containers or equipment before and after use.
- Maintain a strong vector control program for insect, mammalian and avian vectors. Maintain bait stations, clean up feed spills, prevent entry by wild animals (rats, birds, insects) or pets (dogs, cats). Use screens in windows, air inlets, doors feed bin exhausts etc.
- Maintain minimal vegetation and no debris around poultry facilities to lessen food and shelter opportunities for vectors.
- Ensure that feed, water and bedding sources are free from infectious agents.
- Review your biosecurity plan and flock health program, including vaccination protocols, with veterinarian on a regular basis.
- Sick or dying birds should be sent to a state laboratory for diagnosis. Commercial growers should contact their flock supervisor.

Tenets:

An integrated Biosecurity programme must be regarded as an application on logical and sound principles specific to enterprise, monitoring of disease status, evaluation of ongoing poultry farm operations on continuous basis with an objective to contain the diseases at bare minimum level.

The location and structural biosecurity principles are to be followed at the very beginning, while setting up the farm. Operational biosecurity measures in general revolve around three basic principles viz:

- a) isolation,
- b) traffic control and
- c) sanitation

These are further categorized into various sub groups which are mentioned below for ready referencing as a checklist:

It is utmost importance that the birds must be free from stress for which overcrowding should be avoided, appropriate ventilation and temperature must be regulated to make the environment ambient. Cleanliness, good quality feed/ premix and potable drinking water must be ensured. These basic management measures will allay immunosuppression due to stress making the birds vulnerable to pathogens.

iii) Farm Location and Design:

Poultry farm maintaining the valuable germplasm should ideally be located at a well isolated site away from other farms. It should be located away from water bodies that can be source of water for wild birds and animals and these wild birds and animals and these wild birds ultimately may become source of infection to birds maintained in the farm. Ideally it should be located at least 1-2 km away from other commercial facilities.

- The perimeter of the farm and hatchery must be secured with boundary wall and other measures.
- SOP's of Biosecurity must be displayed in regional and local languages at every different species unit.
- Sign boards indicating 'Biosecurity area', 'visitors are not allowed' are to be displayed at breeding stocks and hatcheries of each species.
- The farm should be designed in such a way that it has sufficient ventilation and should have access to sunlight. This will be necessary for reducing the build-up of infectious agents in poultry house apart from reducing the stress of accumulated gases.
- Direction of long axis: This depends on geographical location of the farm. If the farm is located in cold region then the direction of long axis should be North-South. If the farm is located in hot and humid condition then it should

be East-West, if the farm is located in region with very high temperature in summer months, then long axis should be South-East.

- Overhanging branches of trees over run-area of poultry like turkey, ducks etc. should strictly be pruned/ removed to avoid falling of droppings of feral birds. Ideally no dense foliage and trees should be there.
- Ensure bird-proofing nets in all units to prevent entry of small feral birds into sheds
- Cover any open drains to avoid attraction of wild animals
- There should be no roosting site for wild birds
- There should be proper drainage facility and water should not stagnate.
- Houses should be provided with concrete floor for easy and proper cleaning.
- Foot dips of uniform size must be provided at the entry of all the poultry sheds and preferably use 50% lime powder + 50% Bleaching powder
- Ideally, lay out of the farm should be such that at farm entry point brooder shed should be followed by shed for growers and lastly for adult birds. Similar pattern should be followed for drainage system also from brooding to adult shed.
- Hatchery should be located at least 500 ft. away from other sheds.
- Bird reflectors may be used.
- From biosecurity point of view, distance between two different sheds of same type should be 30 ft. and of different type should be 100ft.
- Roads should be of concrete material so that transport of organisms with shoes and tyres can be reduced.
- Facility for post-mortem examination near to the incinerators and separate laboratory with suitable facilities and manpower are also required for regular monitoring and surveillance of diseases at the farm level.
- There should be single window system for sale of all poultry & poultry products with sale counter at gate. Client and their vehicle should not be allowed in any case to visit farm or hatchery.
- The Sale Counter for the sale of poultry & hatchery products should be arranged at the entrance gate to avoid entry of commercial vehicle in the campus.
- Farmers' Hostel/ training room etc. which is located near farm shed must be shifted away
- One demonstration shed may be constructed near the laboratory side for demonstration regarding poultry and other avian species to the poultry farmers and other trainees.

iv) Restricted Access to Birds:

It means restricting access to a farm by employing fences and enclosures which creates a barrier between clean areas where poultry are kept and outside environment and it is the most important biosecurity measures for restricting source of infection away from farm and even from the infected farm to other non-infected far. Movement restriction should be applied both at farm as well as at shed level.

CCTV, if required, in the whole campus to monitor & supervise the activities in the campus is recommended.

a) Movement restriction in general at farm level:

- As far as possible, separate personnel must be made available to each species of poultry to avoid frequent movement between different species units.
- All the farms should be provided with fence to protect the entry of persons, vehicles, animals etc.
- Entrance should be forbidden to everyone. The poultry farms can only be entered with the permission of the farm manager or appointed responsible.
- Permit the access on the farm only to those people that are necessary on the farm e.g. personnel, veterinary services.
- It should be kept in mind that visiting two different farms within 24 hr should be avoided. If necessary, showering in between visits is highly recommended. Similar instructions should be applied to the team of persons who catch and load poultry.
- To improve control on the access of the farm, there should only be one entrance and one exit. The road used for such personnel should be cleaned and disinfected daily.
- At the entry point of the farm, provide boot and wheel dip baths filled with an effective disinfectant. It should be ensured that the baths are renewed on daily basis.

b) Movement restriction at shed/ poultry shed level:

- Keep the shed locked at all times.
- Shed ideally should have a facility for changing room with hand washing facility (if required, showering facility).
- On clean side there should be facility to put on clean clothes and boots and after use they should be left out in the changing room, and while exiting put on the clothes which the individual was wearing before the entry into the changing room.
- It should be ensured that all materials, drugs, vaccines etc., are cleaned and disinfected and they should be have passed a quarantine storage period of 10 days in a especially designed storage room which should be cleaned regularly.
- All material used in farm operations should cleaned and disinfected before and after use.
- Every shed should be provided boot dips at entrance and exit and they should be ensured that the dips are renewed on daily basis.
- Fogging of the populated sheds should be a part of a prevention programme to minimize the risk of contamination. The disinfectant should be used with right dilution as per manufacture's direction.

c) Restrict vehicle entry in the farm area:

Since many poultry diseases are known to be spread by transportation and thus it is of paramount importance to clean and disinfect vehicles before entry into farm premises.

- Provision of wheel dip and walk way for personnel is required at the entrance
- Person doing cleaning and disinfection of vehicles should wear clean and disinfected clothing.
- It should be ensured to remove all dry litter, straw, mud from all surfaces, wheel arches etc.
- Remove all equipment from the vehicle that can be dismantled and cannot be cleaned on the spot.
- For cleaning purpose, use a powerful car and truck cleaning product to soak all surfaces. Attention should be paid to wheels, ceilings; lifts etc and then leave it for 15 to 30 minutes.
- Clean the removed equipment and other tools of vehicles with a proper detergent. After soaking for some time, rinse all surfaces and equipments under high pressure. It should be ensured that no organic material remain on the vehicle with detergent safe for the vehicle and effective at all temperatures.
- During disinfection operations, disinfect all surfaces inside and out with the disinfectant. Work your way down from the top to be bottom and attention should be paid to cracks and wheels. It should also be ensured that underside of the vehicle also get disinfected.
- Then move the vehicle to a clean and disinfected place to let it drain and for drying.
- Apply restrictions on the movement of driver.
- Drivers are permitted to enter up to egg storage room only
- All feed delivery vehicles should be kept clean before loading the feed
- Transport the feed first to the young flock and then to the older flock.
- Drivers not to enter poultry houses under any circumstances.
- Drivers to spray soles of shoes and floorboard of vehicle with disinfectant after every delivery.
- Wash hands with disinfectant solution before leaving for another shed.

d) Restriction to visitors:

- Allow only essential people to contact the poultry kept in the farm.
- Build a separate demonstration area and birds kept there should not later be stocked with shed-house birds.

- If visitors have their birds of their own do not allow them to come near to the birds.
- Allow entry of the visitors in essential situation after taking all biosecurity measures at farm entry as well after entry into the shed. These measures should include footbaths at the entry of farm and then at shed level, every visitor may change clothes/cap/footwear, (go through shower-in policy if required) and wear clean and disinfected clothes/ cap and boots. Specific coveralls and footwear for visitors are also to be provided.

e) Restriction to farm workers:

- At the outset train the farm workers about the basic tenets of biosecurity
- Allow only the employees of that farm to handle the birds on a day-to-day basis.
- Make sure that employees should not have a commercial or private bird operation as they may transmit disease to the birds kept at the farm.
- Do not allow farm workers to visit any other poultry farm or places where birds are kept. Similarly, the farm workers should not be allowed to visit the bird shows or bird fairs.
- Workers in engaged in rearing of one poultry species should not be allowed to visit other farms where different poultry species is being reared.
- All the farm workers should be allowed in the farm after going through all the biosecurity measures as mentioned for visitors.
- All the farm workers must put off their clothes and boots after finishing their jobs and should go through shower-out policy.
- All workers must wear clean and disinfected clothes during farm operations.
- Frequent washing of hands with detergent or soap with sufficient contact time should be encouraged in day to day farm operations.

f) Restriction to carriers of transmission of infection in the farm:

Some of the mechanical carriers of infection should be restricted to enter into the farm building.

- Prevent the entry of introduction of new birds to a previously infected poultry house at least for 3 weeks after clean out.
- Wild birds – resident fowl or migratory birds – should have no contact with the flock through the use of screens or overlying nets.
- Bird reflectors/ solar fencing may be considered.
- There should be insect control programme in place since flies of several species are important in transfer of certain pathogens.
- Rodents have also been implicated in the transfer of infection. Therefore, control and preventing their movements between houses on a single premise are essential.

- Steps should be taken to prevent the accumulation of standing water. Since such water bodies can serve as source of water to migratory waterfowl and shore birds.
- Limit sources of food for wild and free flying birds.

g) Multiple Species rearing and precautions:

The specific guidelines for keeping multiple species are to be further deliberated. However, the following thumb rules may however be kept in mind:

- Poultry units should be distantly located or well bifurcated from each other.
- Separate hatchery for each species may be considered.
- Provision of separate feed storage facility at units of different species may also be considered.
- Equipment meant for different species of birds should be separate.
- Provision of all-round spray system of disinfectants at the entry of each species units
- Exclusive infrastructure facility is essential to rear each species separately and to follow all-in all-out system

v) Isolation and quarantine of new birds:

Isolation and quarantine of new birds is necessary in a separate place and enclosure so that infectious agents which may be there in the newly introduced birds may be detected before introduction of these birds with other flocks.

- If the birds have been used for a show or a fair, keep them isolated from rest of the flock for 21 days after the event and observe for signs of the disease.
- New birds should be kept separate from old stock for at least 21 days and they should be observed for any disease symptoms to develop and samples (blood, faecal, swabs) should be collected for thorough investigation before mixing to the already existing old stock.
- It should be ensured that shed houses birds of same age group, even if farm consists of birds of different age group.
- Pest proofing is recommended before restocking

iv) Cleaning and Sanitation:

- Effective cleaning and disinfection is an essential component of good hygiene and thus one of the key biosecurity measures for disease control. This should be carried out from time to time to reduce the build –up of pathogenic organisms and a disinfectant known to be effective against a large range of

pathogens should be used regularly for prevention of this type of virus. It should address the disinfection of materials.

- Approved disinfectants like chlorine dioxide and peracetic acid for disinfection or sterilization may be used.
- Farm equipment entering the farm, cleanliness of personnel on the farm, disposal of dead birds and poultry manure and sanitizing the drinking water should be paid attention.
- The area around poultry sheds should be kept clean from vegetation, food waste, plastic bottles, glass bottles, tins or drums.
- Water Testing should be done at regular intervals. Water purifier in each shed is required.
- Air purifier in all sheds is recommended.
- Testing of Microbial load – at different places is required.

a) Cleaning and disinfection of farm equipments:

- Feeding pans and drinking equipment used in the caged area should be kept clean daily.
- Scrubbing should be done and then application of hot water followed by disinfection with an effective disinfectant.
- Make sure all equipments that had contact with the poultry, lawn, garden and poultry equipments are washed and disinfected before taken to another place. The same should be followed where some equipment are to be brought into the farm.
- Keeping the cages clean prevents pathogens from accumulating and causing health problems. Cages should be disinfected at regular intervals. They may be left in the sun and then they may be disinfected but it is essential to remove manure before disinfecting cages. Disinfectant will not work if there is still manure present on items.
- Newly purchased equipments should be thoroughly washed with soapy water or otherwise should be disinfected before use.
- Newly purchased cages should also be subjected to washing with soapy water or should be disinfected.
- Poultry equipments such as egg crates, cages, shovels or rakes, should not be shared between family or neighbouring farms. Plastic or metal equipment may be preferred over wooden material.
- Change feed and water daily.

b) Cleaning and disinfection of poultry houses:

Housing cleaning is the most arduous phase of bio-security and it can be divided in two type.

i) **Complete or terminal house cleaning:** This is practiced after removal of flock and the following points should be given consideration.

- After removing the flock, remove the left over feathers, droppings, litter etc. It should be then followed by complete disinfection of the shed. Firstly the house should be fumigated and then it should be subjected to an effective disinfection. Keep the shed empty for a minimum period of 10 days before arrival of new flock.
- Before introduction of new flock it should be ensured that there should be no extra moisture in litter, otherwise chances of fungal growth are more.

ii) **Partial/concurrent house cleaning:** This type of cleaning is done while the birds remain inside the house with following considerations:

- Thoroughly clean the fans and it should be a regular feature.
- Sweep the house from top to bottom.
- Remove the caked litter from the house.
- Place the clean litter in the house.
- Regularly disinfect the brooder guards, feeders, jugs, drinking water containers using iodophores and 5% sodium hypochlorite. Other chemical effective like sodium dodecyl sulphate, formalin and iodine compounds may also be used.
- Regularly sanitize the drinking water.
- Proportion of disinfectant added must be displayed at the entrance of each shed/ hatchery.

v) **Personnel hygiene:**

- Specific over all clothing for employees must be provided.
- Wash hands thoroughly before and after entering the farm area. Washing of hands can be done with soap or detergents with contact time of 10 minutes.
- Wear clean clothes or coveralls while working with birds in the farm. The clothes should be washable with laundry detergent. Preferably for this purpose detergents or oxidizing agents (sodium hypochlorite dilute to give 2-3% available chlorine or vircon @ 2% with contact time of 10 minutes) and alkali (sodium hydroxide 2% solution or sodium carbonate anhydrous 4% solution with 10-30 minutes contact time) can be used. Dirty clothes should be washed with detergent and hung out to dry in the sun).
- Since disease in poultry can be transmitted easily through boots, therefore, boots should be used after cleaning and disinfection. The best approach would be disinfecting footwear before and after working with birds or keeping a separate pair of shoes to work around birds and changing into other shoes when leaving the premise. The person should use coveralls, which can be

- When the care personnel needs to attend to chickens or other poultry (e.g. collecting eggs, feeding or watering, change of bedding or repair of fencing material), a change of clothes/ boots should be required.
- Medical check up of all workers coming in contact with livestock and feed should be done.

vi) Hygienic disposal of poultry manure:

- Use of poultry manure and other poultry by-products such as feathers in agriculture and aquaculture as fertilizer and in untreated form as food for pigs and fish may serve as source of infection as many viruses may not be deactivated for several weeks inside the organic matter such as faeces.
- Poultry manure should be left undisturbed for at least 90 days and then can be used as fertilizer. High risk farming practices such as use of contaminated water and recycling of poultry waste without treatment should be stopped.
- Effluent generated from poultry processing of manure can also be disposed off after treatment with acids such as hypochloric acid 2% or citric acid 0.2% or with alkali treatment such as Sod. Hydroxide 2% or sodium carbonate anhydrous 4%.

vii) Disposal of dead birds:

Dead birds should be removed quickly and properly, to ensure no contact with other birds which will be helpful in removing the source of infected foci to poultry as well as to handlers. The best way to dispose off dead birds is by rendering, burial or incineration.

viii) Feed safety:

- Subject to financial and practical considerations, feed should be pelleted to achieve pasteurization. This requires a temperature of 82⁰ C for at least 30 seconds to eliminate enteric bacteria. Maintaining good manufacturing practices and careful monitoring of the pelleting process will reduce the probability of infection.
- Either feed plant personnel should be trained in the selection, application and control of pesticides and rodenticides, or a licensed applicator should be used. This may reduce the probability of accidental contamination of feed or contravention of regulations.

ix) Period of rest or Rearing of single age group:

One prevention measure that can be instituted in the farm but requires good planning and several enclosures is the method of practice of all-in all-out. This method envisages a complete growth cycle of chickens (or other species) from the period of introduction as in day-old-chicks all the way till the birds are sent to market.

- The all in-all-out system should be followed in poultry farms maintaining the important germplasms. This system provides considerable advantages in the disease control. Using this system, proper sanitary practices can be effectively carried out, coupled with necessary resting period of the building to ensure no infectious agents are carried over from one batch to another. Birds of multiple ages kept on the same premise/shed constitute a serious disease potential from such birds and recovered carriers, especially when birds of different ages are closely associated together.
- It is also important to clean and allow sufficient downtime in between flocks. A period of 10 days should be given after destocking before arrival of new batch. During this period the poultry house should be fumigated and then disinfected with effective disinfectant.

x) Medication/ vaccination of birds:

The birds should be provided certain medicines and essential vaccines regularly, which can boost immunity such as vitamins, trace minerals and proteins. Deficiency of these will not only lead to decreased production but there will be more chances of getting infection in flock with low level of immunity. Antistress medication during hot weather, after de-beaking, dubbing etc. may be given.

xi) Flock profiling:

- Analysis of feed for mycotoxins or other toxic components should be a part of regular biosecurity measures.
- Environmental monitoring of Salmonella in poultry house should also be carried out regularly.
- Isolation, identification and antibiogram of pathogenic organisms should be a part of biosecurity measures.
- Stress reducing measures should be part of regular biosecurity measures. Controlling environmental temperature is most important for removing summer stress.
- Person working with poultry operation should be educated about the disease, its transmission and prevention measures.

xii) For high risk/ Alarming situation:

- Self quarantine upon the suspicion of an infectious disease - No movement of poultry, eggs, dead carcass, manure, farm machinery, and equipment should be allowed within the affected shed area and to outside/other sheds area.
- Immediately adopt enhanced biosecurity protocols for unaffected sheds.
- Treat dead birds as infectious material and dispose off on farm
- Dedicate specific employees to the affected shed(s)
- The farm personnel should wear protective clothing all the time inside the farm, including face-masks & gloves, gumboots.
- Follow strict personal biosecurity procedures for leaving the farm
- Immediately restrict on and off-farm access by locking gates.
- Suspend all unnecessary traffic – no vehicle should be allowed to ply in & out in the farm. Personal vehicle should be left outside in the farm premises.
- Disinfection procedures should be strictly applied at the entrance of the premises.
- Immediate reporting the unusual mortality & sickness of the birds in the farm to Ministry

xiii) Documentation and Record keeping (indicative list)

- Outlay / map of the entire farm with clear demarcation of clean and dirty areas with unidirectional approach (one-way route) roads/ access points/ clean-dirty water demarcation etc. – all colour coded should be displayed in office with Critical Control Points clearly marked
- Personnel roster- shed-wise/ entry/exit time; duty /job chart-cleaning of shed, feeding pans/ watering channels, cage cleaning, litter turning etc.
- Visitor's entry log
- Vehicle entry log
- Disinfectant spray schedule for houses; wheel/ foot-dip change roster
- Trace-in and Trace-out for both consignments (chicks/ Hatching Eggs etc.)arrivals and transfers respectively
- Log for feed / equipment arrival and allocation shed-wise, in hatchery/ disinfection of equipment
- Health check-up and cleanliness check-up schedules for personnel
- Schedule for vector/ rodent control program & monitoring
- Record of dead bird, hatchery waste disposal/ manure disposal
- Water sanitization schedule / water testing frequency

- Microbial load testing frequency in different areas- schedule of testing for ensuring freedom status from Salmonella, Coli and Clostridium species
- Salmonella testing schedule
- Shed cleaning/ disinfection/ fumigation schedule
- Record of separate sheds having single age group stocks etc.
- Feed Testing schedule