



Use of Bio repellents ‘A Passive Control’ – Wildlife Hazard Management

DATE 13 06 2023 | VENUE: WEBINAR





PROFILE

- Gen Agritech is a start-up in the field of Agricultural Bio Technology, accredited by Ministry of Commerce and Industry, Government of India.

BUSINESS PHILOSOPHY

- Gen Agritech products are user friendly, being non-toxic and economical, soil friendly, being chemical free and environmental friendly, being non pollutive to air, soil and water.

PRODUCTS

- Gen range of products, in particular BirdX[®], Farm Secure[™], UV Dye[™], Dhasmart[®], Biorepel[™] are natural repellents.

About the Speaker

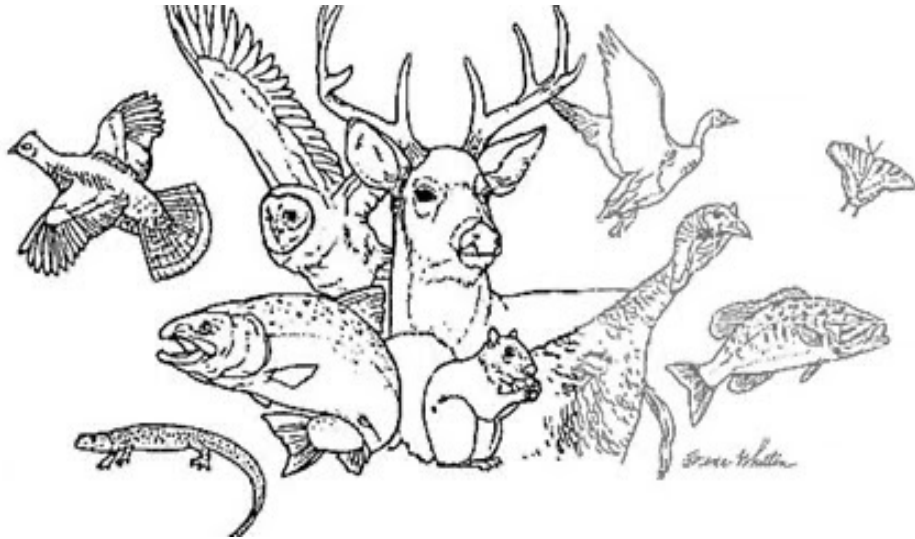


Dr. P. N. Rao

MD & CEO

- Dr. P.N.Rao is a doctorate from Cambridge, UK in the field of Nanotechnology
- Masters in Business Administration from INSEAD, France.
- Masters in Biotechnology from Pondicherry University, India.
- He has rich experience in the Bio/Pharma industry, worked in Capgemini as Senior consultant in UK, France and Germany.
- He has held senior management positions in reputed Pharma companies in India.
- Strong technical and business qualifications with an impressive track record of 23 years of hands-on experience in strategic planning, business unit development, project and product management strategies.
- Holds 18 International patents in Pharma, Bio-pharma & Agribiotech
- Holds 25 trademarks in Pharma and Agribiotech

Our Approach



Wild Life Management

◆ **Schedule III of the
Wildlife Protection Act of 1972, India**



Mother Earth

Birds – Occupants of airspace

- There are about 11000 species of birds across globe
- 40 % of them are airspace occupant by migration
- Remaining 60% of them are mixture of low flying birds and ground birds
- Bird strike statics shows > 58% of the Birdstrike occurs within the aerodrome (ICAO statics)
- The species combo would be differing from airport to airport
- Little we could do to control the migration birds however we can do much to avoid ground birds if we clearly look into their behavior instincts

Bird Menace in Aviation – India Perspective



LAST YEAR'S TALLY

Sept 21 | IndiGo flight from Kolkata to Bangkok while take off

May 8 | Emirates flight from Dubai to Kolkata while landing

Apr 24 | Air India Delhi-Kolkata flight while landing

Apr 6 | Jet Airways Bengaluru-Kolkata flight while landing



Impact of Birds - US Airways Flight 1549



Our Offering : Bio Repellents



BirdX[®]

Liquid Formulation
for **Birds**



DhaSmart[®]

Liquid Formulation
for **Birds**



Biorepel[™]

Gel formulation
for **Wild Boar.**



Farm Secure[™]

Liquid formulation for
Nilgai (Antelope of Asia)

Eco
Friendly

Proven –
Works well

Natural

Cost
effective

BirdX[®] – Demo @ CSIA



BirdX[®] – Demo @ CSIA



Methodology of Application



Identify the area of bird attraction

Identify the runway in use

Fix the schedule as per the maintenance slot

Start application on the basic strip of runway from runway in use end

Try to cover the entire stretch i.e., both sides of the runway

Carry out the same application for taxiway also

Case Study Data -



Lapwing														
Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Bird log	1975	620	400	348	393	787	1446	5177	2494	5363	4550	5380	6995	3059
BS	0	0	0	0	0	0	0	0	3	0	1	0	0	0

Product focus – Problem species



Ground birds

Usually look for tranquil area

Away from predators

Away from raptors

Away from other wildlife threats

They look for safe area to settle

Lay eggs

Groom hatchlings

Take away

Return next season

Settle germanely

UV Dye®


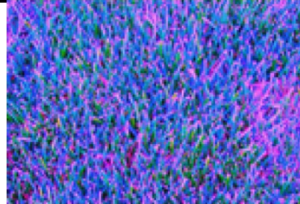
UV Dye is an ultra-violet (UV) dye-invisible to humans, but visible to birds.

UV Dye is a non lethal avian tool that should be mixed with BirdX, teaches birds to avoid treated grass, plants and landscaping.

By Visually Training Birds to associate irritation with an area.

Birds can see ultra violet (UV) light waves (200-400nm) which allows them to see a portion of the light spectrum that is invisible to the human eye. **UV Dye is only visible below 400nm.**



Untreated	Treated with UVDye
	
Treated turf looks unchanged to the human eye	
Birds see a clear difference in color, giving them a visual cue to 'Stay Away'.	

Dhasmart[®]

Demo @ RGIA, Hyderabad

- Bird Repellent contains natural ingredient and effective dispersal of pest birds in **open spaces**.
- It is formulated for application with **foggers and haze generators**.
- Is ready to use, do not dilute or mix with any other material.
- For best results use 'low' or 'dry' output settings to produce a dry fog or haze with most particles in the 10-20 microns size.





GEN POWER® – MICROBIAL CONSORTIA FOR SOIL HEALTH MANAGEMENT BY DECOMPOSING AGRI.WASTE

Benefits

- Improves soil Organic matter
- Detoxifies chemical residues.
- Induces Phyto-tonic effect and makes the soil healthy

THANK YOU



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