

**WNO's Communication On Engagement
for
UNGC**

16/11/2017-16/11/19

**Neem: Azadirachta Indica A.Juss
Declared The Tree of the 21st Century
by United Nations**



World Neem Organisation

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**Mr António Guterres,
Secretary-General,
United Nations New York,
New York 10017, USA**

Sub: COE submission

Dear Mr. Secretary-General,

I am pleased to confirm that World Neem Organisation continues to support the ten principles of the UN Global Compact with respect to human rights, labour, environment, and anti-corruption. With this commitment, we express our continued intent to advance these principles within our sphere of influence, and as before we continue to make a clear statement of this commitment to our stakeholders and the general public. We continue to hold our pledge to take part in the activities of the UN Global Compact and appropriate and feasible participation in Local Networks; involvement in specialized initiatives and work streams; engagement in partnership projects; and reviewing and providing commentary to participating companies on their Communications on Progress.

Thanking you

With NEEM Regards

A handwritten signature in blue ink that reads 'N Kotharii' with a horizontal line underneath.

**Dr Nirmala Kotharii
General Secretary**

- World Neem Organisation (WNO), a Not-for-Profit-Company and a Participant of the UN Global Compact was incorporated under Section 8 Company of India (CIN No U01110MH2017NPL294815) on May 15 2017 as a forum for all neem enthusiasts, investigators, partners and workers with a view to synergise their expertise, knowledge and resources to promote neem activities across the globe. Mumbai is the head quarter of World Neem Organisation (WNO).
- Today's main concern are the increasing World Population (7.3 billion in 2015 and 8 billion by the year of 2024), the Global Warming and Climate Change (as Earth is getting warmer) and the Deforestation (according to the FAO, an estimated 7.3 million hectares of forest are lost each year) are the three major concerns World over.
- They seriously threaten the lives on this earth. The best way to overcome a natural problem is to use a natural solution. During the last two decades Neem has been seen as an outstanding tool to minimize these global concerns. Neem tree and its phytochemicals can play an important role in quality food production, food safety, human and animal health, reversing soil erosion, fixing high volume of CO₂, and in restoring the balance of the ecosystem.

WNO Vision & Mission

- Build greater awareness and promote the potential of Neem tree (*Azadirachta Indica* A. Juss.) for better Plant health, Human health, Animal health and the Environmental health.
- Promote large-scale planting of Neem in tropical and sub-tropical regions of the World as well as temperate (south Spain and Portugal) and desert regions. (Saudi Arabia, UAE etc).
- Promote research on Neem's potential for a better world in coming decades.
- Promote production and commercialization of Neem products worldwide.
- Pursue and persuade policy makers.
- Create a Neem database and Neem mapping to build greater awareness of the potential of Neem.
- Conceptualize Neem Co-operative Societies for Neem fruit, leaves collectors and bringing it to reality.

WNO's support to UNGC's Ten Principal as well as SDGs no 1, 2, 3, 13, 14, 15 and 17

To work towards UNGC Ten Principal as well as SDGs no 1, 2, 3, 13, 14 and 15 WNO has organised its first seminar entitled **“Neem-Eco Friendly Solution for Sustainable Development”** & **2nd Global Neem Trade Fair** in collaboration with Neem Wave Exhibitions LLP (NWELLP) and University of Agricultural Sciences GVK, Bengaluru as Knowledge Partner on 3rd & 4th December 2018 at R G Royal Hotel & Convention Halls, Bengaluru. The title of the seminar is the need of the present time and future to come. Eminent Experts on Neem from different parts of the globe delivered Plenary Lectures. Oral and Poster Presentations were presented by scientists, research scholars and industrialists. They projected the role of Neem in sustainable development in the areas of Agriculture, Human Health, Animal Health, Environment and Aquaculture.

Few important presentations

- Dr S R Prasad - "Role of Neem and its products in sustainable Seed storage"
- Dr Ramasamy Annadurai- "Neem- For sustainable rural livelihood security"
- Dr Joaquim Morgado- "Neem for the Sustainable Medical Applications"
- Mr Brian Williams- "Status of Neem in Australia & Neem a Sustainable Personal & Pet care Ingredient"
- Dr R C Saxena - "Ethno medicinal uses of Neem and Future Prospects."
- Dr K Kumaran- "Role of Neem Plantations in Sustainable development"
- Dr Venkatesh Devanur- "Role of Neem Bio Products in Sustainable Agri-Hort production: Present & Future Prospects"
- Uppuluri Aiyer, Shrividhya - Neem – Nature's answer to Soil Health and Sustainable Agriculture
- Dr. S. Marimuthu- "Role of Neem in Eco Friendly & Sustainable Pest Management"
- Dr Basavanneppa Hulagur- "Role of Neem Coated Urea in Global Context", an important tool in Sustainable agriculture.
- Dr Ghatanatti, S. M. - Ecological and Economic Strengthening of Rural Community through Neem Cultivation.
- Ms Perin Fitter - Success Story of the Use of Neem for Poverty Alleviation in Kenya and India
- Dr V K Singh- Role of Neem in Empower Groups to Empower Rural Population



First WNO AGM -

Prior to the Seminar and Trade Fair, First General Body Meeting of the WNO was held, which was presided by WNO President Dr B N Vyas. Meeting was attended by WNO members from different parts of the Globe including India, Australia, Portugal, Canada, Bangladesh, Kenya, Paraguay and Bahamas. The meeting provided platform to all to present their views regarding the future activities of the organisation in popularising Neem among the masses. Some of the important decision included use of Social media, including YouTube and Face Book, for spreading the message relating advantages of Neem, and related aspects.

Role of Neem Plantations

The inadvertent use of synthetics in every arena of life, be it food, clothing, or health-care is now giving way to the search and use of eco-friendly products. The global shift in focus towards eco-friendly alternatives and growing trust in Mother Nature for its needs has brought back man to look up to the nature for solution to his every problem. Today modern societies finding themselves confounded in the web of their creation are willing to revert to nature for remedies/solutions (Govt. of India, 1996). And this changed focus has brought Neem to not only the centre stage of environmentally safe alternatives, but also as a solution to environment degradation.

Azadirachta indica A Juss commonly known as Neem is native to Indian subcontinent and has been grown and naturalized in most of tropical and subtropical regions of over 72 countries. The importance of neem tree has been recognized by the **US National Academy of Sciences, which published a report in 1992 entitled 'Neem - a tree for solving global problems'**.

Neem Plantation & Rural Development

- Neem plantations in agro-forestry will strengthen social and economic status of rural communities.
- The farmers as well as the rural community need to be educated on the significance of Neem and development of Neem-based products as rural industry.
- Training the local people and establishing small production facilities around the Neem plantations will generate additional income from production of Neem oil and Neem Cake as well as Neem Leaf (all of which are sought after products in the market place).
- Upliftment project should cover the training of farmers and rural communities.
- Collection of Neem seeds and Neem leaves are the important means of supplementary employment and extra income for poor households, especially for rural women.

Neem Plantation in Social/ Agro forestry

- Neem tree is a favorable tree for agro forestry systems.
- The farmers should be sensitized and motivated to grow Neem plantation on unused lands.
- As Neem Plantations in agro forestry system typically take 5-6 years to produce revenue, other crops can be grown in between to supplement income.
- Neem is highly recommended for reforestation of semi-arid regions in India and tropics of the sub-Saharan region, Asia and Central America.
- Neem is extremely useful in urban forestry because it has remarkable ability to withstand air and water pollution as well as heat.
- Neem also helps in restoring and maintaining soil fertility which makes it highly suitable in agro-forestry.

Neem in Sustainable Agriculture

- A major challenge of agriculture is to increase food production to meet the needs of the growing world population, without damaging the environment.
- In current agricultural practices, the control of pests is often accomplished by means of the excessive use of agrochemicals, which can result in environmental pollution and the development of resistant pests.
- A World Health Organization and United Nations Environment Program report estimated that there are 1 million human pesticide poisonings each year in the world, with about 20,000 deaths, mostly in developing countries.
- In this context, Neem based plant protection products can offer a better alternative to synthetic insecticide/pesticides, enabling safer control of insect and pest populations. Neem support its contribution to organic agricultural production systems that are more sustainable.
- Neem coated urea enhances the efficiency of Nitrogenous Fertilizer.

Neem in Sustainable Agriculture

- Neem's deep tap roots break through hard clay pans and mine the subsoil for nutrients. The nutrients are returned to the surface as leaf litter, for other plants to use. Neem trees are especially good at accumulating calcium.
- Growing Neem trees can bring acidic soils back to neutral and so reclaim exploited soils.

Neem Plantation

Environment /Global Warming/ Carbon Sequestration

- Global warming is increasing at alarming rate and is now a reality and it affects all countries . It will increase number and intensity of heat waves, droughts, floods, cyclones and wildfires in the near future.
- Neem brings environmental benefits such as flood control, reduced soil erosion and less salivation.
- Neem has the ability to withstand salty and non-salty industrial effluent.
- Neem plantation can derive incremental attractiveness for addressing the reduction of greenhouse gas emissions through carbon sequestration.
- Each Neem tree planted per hectare in a plantation, tree density can remove substantial quantity of CO₂ from the atmosphere, therefore Neem trees are considered as Air purifiers as well as Air fresheners.
- Use of Neem coated urea will reduce emission of Greenhouse gases , Nitrous Oxide and reduction in groundwater leaching of Nitrates, leading to the safer environment.
- A mass of adult Neem trees can retain $\pm 2.2\text{g}$ of CO₂ per m² and per hour.
- Neem is a natural resource to keep environment clean.

Neem Plantation Environment /Global Warming/ Carbon Sequestration

- Neem is a very special plant in terms of environment. Neem can be grown in much polluted environments as it can tolerate very high levels of pollution and has the capacity to recover even after defoliating to a greater extent. Plants like neem with large canopy can accumulate relatively higher quantities of lead from the environment and hence are very good for reducing pollutants.
- Neem has been a very good candidate for Carbon farming as it has relatively high efficiency of CO₂ fixation. It can fix more than 14 micro mole of CO₂ per m²per Sec. With a thick foliage canopy and a very high leaf surface area, it provides a good option for maximum CO₂ fixation and providing a shield against other pollution components particularly SO₂.
- It has also been noted that during hot summer months in northern parts of the Indian subcontinent, the temperature under the Neem tree is ~10° C less than the surrounding temperature; 10 air conditioners operated together may not do the job as efficiently and economically as a full grown Neem.



Neem Plantation Environment /Global Warming/ Carbon Sequestration

- For the global community, Neem plantations can help to mitigate climate change while also providing a source of carbon income for local communities planting and protecting such trees. There is great potential of using Neem oil as a bio fuel as an alternative sustainable energy source. Various value additions highlights are the use of raw Neem oil to produce electricity, pump groundwater, and run village flour mills.

Neem Plantation & Economic

- The Neem plantation in Agro Forestry project is a very profitable alternative for the farmer and villagers as it provides valuable seeds, fruit, leaves and bark which are raw material for Biopesticide, Pharmaceutical, Veterinary, Skincare & Personal Care products.
- Approximately, after the sixth year with the first fruit harvest, the neem oil can be extracted from the fruit
- The pressed Neem cake, after the oil extraction process, can be used as a fertilizer. By selling Neem Cake extra money can be earned.
- Also, Neem leaves are a valuable resource and can be harvested and processed for sale
- Neem trees grow rapidly so it provides sufficient quantum of timber for various uses after the 6th year.

Some successful examples of Neem Plantation

- **Neem plantation Plains of Arafat-** In 1980s, some 50,000 Neem trees were planted over 10 kms on the Plains of Arafat to provide shade for Muslim pilgrims during hajj. The Neem plantation has had a marked impact on the area's microclimate, micro flora, micro fauna, sand soil properties.
- **Neem Plantation African continent-** In countries from Somalia to Mauritania, Neem has been used for halting the spread of the Sahara desert. There is Large scale planting of Neem in Kenya, Niger, Nigeria, Tanzania and other African countries.
- **“Plan Verde” Neem Plantation-** The Neem tree's resilience is what prompted ElkeKrüger to test out the species in Peru's coastal north. In her own words Kruger says “We put it under water for several months, it can withstand temperatures of up to 50 degrees Celsius, and we even planted it directly on the coast in salt water,” says Krüger, who set up a non-profit organization called Plan Verde, or “Green Plan.” And in the end, the tree survived. So did the other 200,000 neem trees that she planted in and around the city of Piura in northern Peru.

Some successful examples of Neem Plantation

- **Neem Plantation GTZ-** Germany's federal development agency, the GTZ- Gesellschaft für Technische, has also started using Neem trees in West Africa. Martina Wegner, an expert in rural development and agriculture at the GTZ says that the Neem tree has incredible ability to adapt to any conditions.
- **Abaco Neem Plantation, Bahamas, WNO Corporate Member** -It is twenty years since Nick Maioulis owner Abaco Neem, Bahamas first began to investigate the amazing properties of the Neem tree and its significant benefits. He then took his first steps towards establishing the Neem farm of 6,200 Neem trees on his 120 acre farm in South Abaco .



Some successful examples of Neem Plantation

- **NEEM PROJECT, Paraguay- WNO Corporate Member-** They grow first class Neem on 5'000 hectares of previously uncultivated land in Paraguay, South America. The Neem Project is the result of combining 25 years of experience in the cultivation and processing of Neem with the broad management expertise of a German investor.



Some Successful Examples Of Neem Plantation

- **Primal Group Neem Plantation- A participant of UNGC, WNO Corporate Member-** At the intersection of sustainability and innovation, the Primal Group of Companies is committed towards the development of a new agricultural system that creates a symbiotic relationship between people, business and the environment in order to feed a growing population. They manage the largest commercial Neem plantation globally in Northeast Brazil.

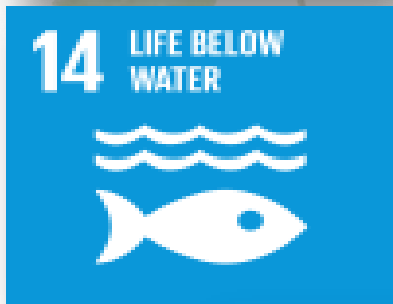


WNO Neem Plantation

- WNO's first Neem Plantation of 510, 18 month old Neem saplings has been done on 25th August 2019 at Ambiste Budruk village of Wada district of Maharashtra state of India on a forest land under Afforestation project in collaboration with Maharashtra Social Forestry Department. Neem Plantation program was attended by following WNO members Dr Nirmala Kotharii -General Secretary, Mr Harnam Singh- Individual member Dr B Bohra- Godrej Agrovet Corporate member, Mr Hemant Bal- Individual member and Mr Nirmal Kothari. From Social Forestry Department Mrs Pramila Bagade-RFO, Mr Uttam Patil-SFD Wada & Team were present. All the arrangements were done by Mr Uttam Patil.
- WNO has joined " Green Army" of Maharashtra Govt's Tree Plantation program.



UNGC (Sustainable Development Goals) no 1, 2, 3, 13, 14, 15 and 17



WNO's Future Activity

Neemathon

WNO is planning to organise a marathon "Neemathon" in the month of December/January in Mumbai to spread awareness about the importance and role of Neem in alleviation of poverty specifically of rural community/ population; in better health for human, plant, animal and in cleaner/ pollution free environment. At the finish every participant will be given a Neem sapling to plant in any appropriate place even in a pot in balcony/window. Neemathon will be organised in other metros too.

Neem Co-operative Societies (NCS)

WNO is planning to work on forming Neem Co-operative Societies (NCS) in Neem rich areas world over. By forming Neem Co-operative Societies (NCS) of the seed /leaves collectors in rural area /villages on the lines of AMUL pattern will boost the quality seed/leaves collection. Neem Co-operative Societies (NCS) will empower the rural economics as well.

Neem Plantation

WNO is planning more Neem plantations in India and other countries in collaboration with its Corporate Members to empower the Rural community especially women; to reduce the Global Warming and for better human, plant , animal and environmental health .

WNO's Participation in UNGCI Summit and National Convention

- Dr Nirrmala Kotharii , General Secretary attended **1st Sustainable Development Goals Summit** 8th December, 2017 at Hotel The Leela, Mumbai.
- Dr Nirrmala Kotharii & Mr Milan Mehta Core Founding Member had attended 2nd Sustainable Development Goals Summit 2018 “**Leveraging CSR for achieving SDGs**” 12th December, 2018, Hotel Sahara Star, Mumbai
- Dr Nirrmala Kotharii & Dr Nagini Core Founding Member had attended 14th Convention held on 31st May 2019 at Hotel Grand Hyatt, Mumbai, on the theme of '**Sustainable Development Goals (SDGs): Pioneering Solutions for India**'.
- Ms R Nivetha, WNO Student member has attended the program “**Developing Women Leadership: A Roadmap to Success**” on 19th & 20th September 2019 in Chennai at Hotel Savera.

Neem Human Care Products

In Morning

- Neem Tooth Paste & Tooth Sticks
- Neem Mouthwash
- Neem Tea
- Neem Capsules



In Daytime

- Neem Soaps
- Neem Face Wash
- Neem Face Pack
- Neem Shampoo
- Neem Shower Gel
- Neem Shaving Cream
- Neem Toothpicks
- Neem Cosmeceutical
- Neem Moisturizer
- Neem Day cream
- Neem Sun Screen
- Neem Nail Care
- Neem Cuticle Care
- Neem Hand Cream
- Neem Anti Lice
- Neem Honey
- Neem Lip Balm
- Neem Floor cleaner
- Neem Dish bar



At Night

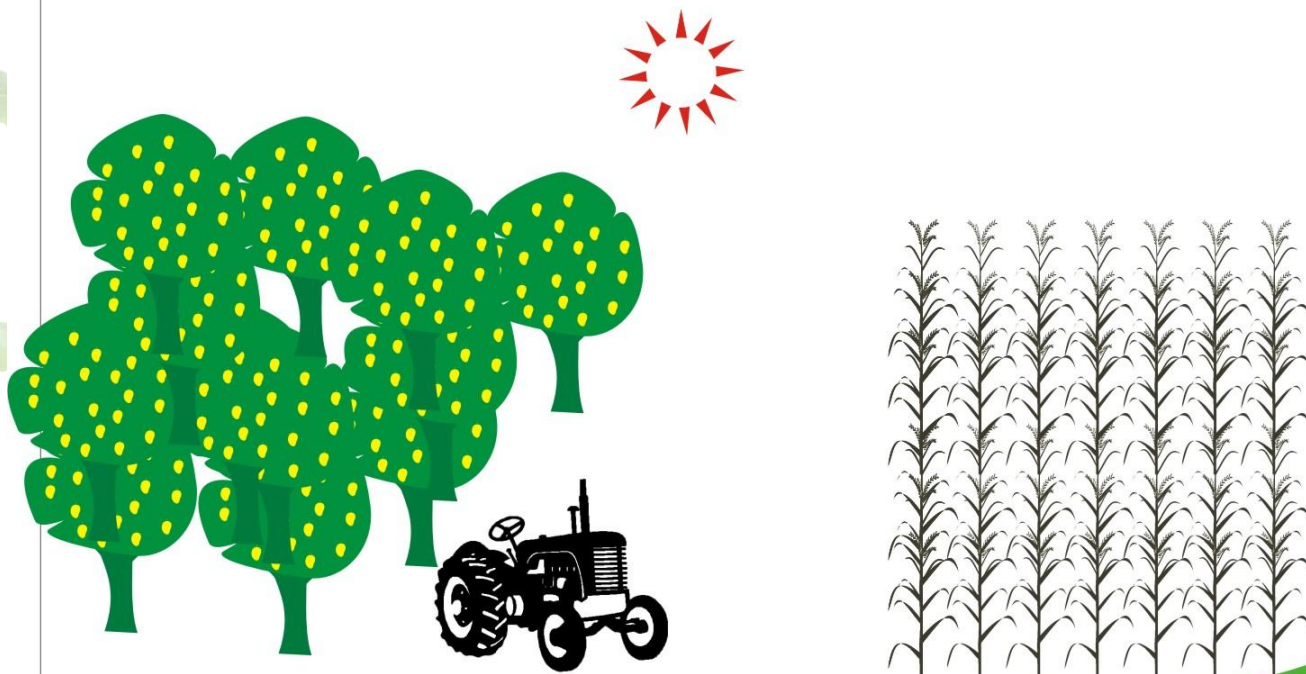
- Neem Mosquito Cream
- Neem Eye Cream
- Neem Eye Drops
- Neem Foot Cream
- Neem Night Cream



WNO

World Neem Organisation[®]
"Neem, the Earth's Saviour"[®]

Neem Plant Care products (Agriculture & Horticulture):



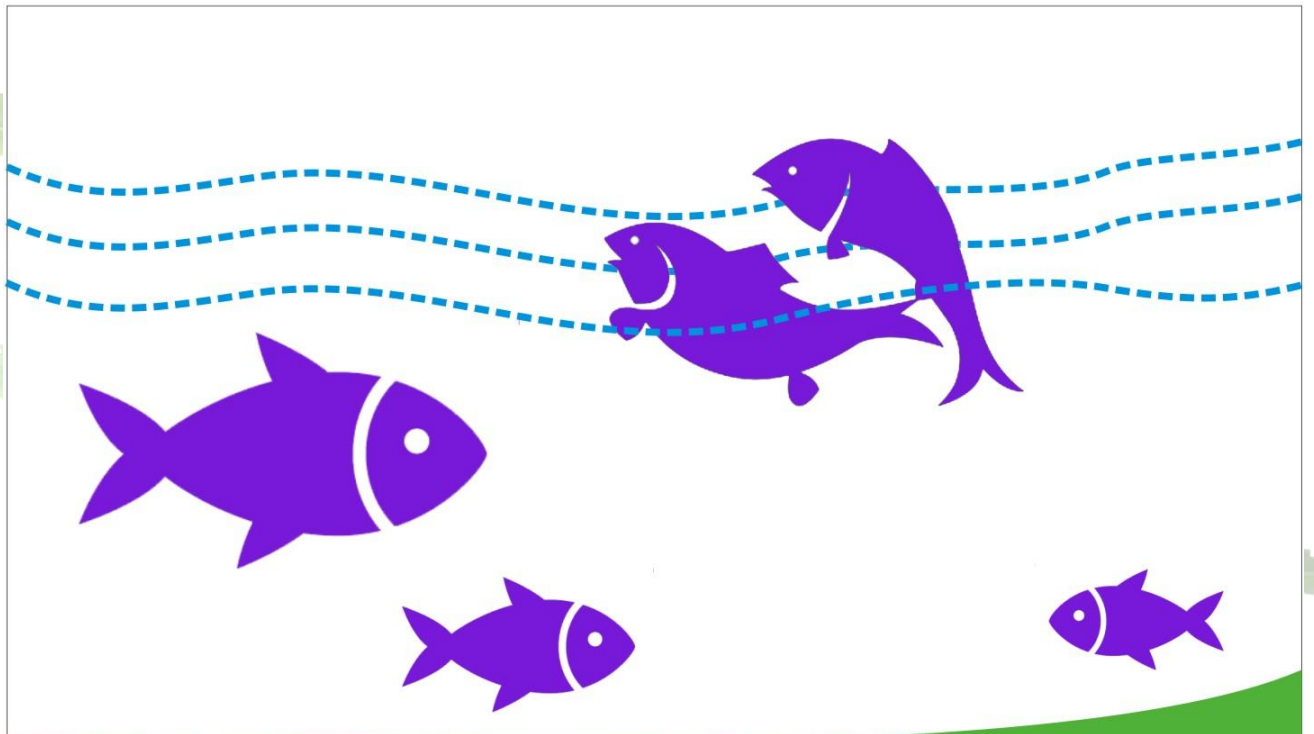
- Neem Pests biocontrol
- Neem Insect biocontrol
- Neem Nematode biocontrol
- Neem Mite biocontrol
- Neem soil conditioner
- Neem Bio fungicide
- Neem Fumigant
- Neem Bio fertilizer
- Neem Manure
- Neem Urea coat
- Neem Grain storage control

Neem Animal Care Products



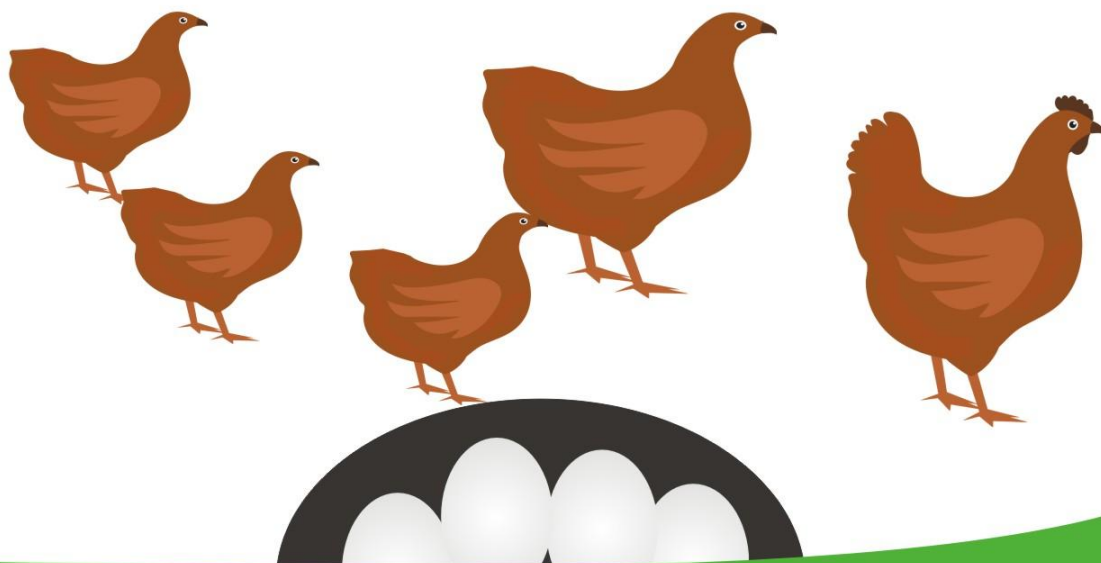
- Anti Tick Neem soap
- Anti Tick Neem shampoo
- Anti Tick Neem cream
- Anti Tick powder
- Anti Itch Neem cream
- Neem Pet soap
- Neem Pet shampoo
- Neem Pet conditioner
- Neem Pet cream
- Neem Pet powder
- Neem Pet spray
- Neem Pet massage oil
- Neem Kennel cleaner
- Neem Horse and Stable wash
- Neem Horse Shampoo
- Neem Horse conditioner
- Neem Equine massage Oil
- Neem Cattle wash
- Neem Cattle spray
- Neem Goat wash
- Neem Goat spray
- Neem Livestock feed

Neem Aquaculture Care products



- **Neem Sea Lice control**

Neem Poultry Care products



- Neem Poultry Feed
- Neem Poultry Dust

neem leaves extract
ayurveda
CTO's
antibacterial
skin diseases
diabetes
malaria
neem bark powder
neem plantation
antifungal
siddha
antiviral
botanical pesticide
carbon sequestration
unani
AIDS
neem oil
neem coated urea
environment protection
azadirachtin
antioxidant
cancer
maggots
animal health
bio fertilizer