

INNOVATION AND INVENTION IN NANOTECHNOLOGY

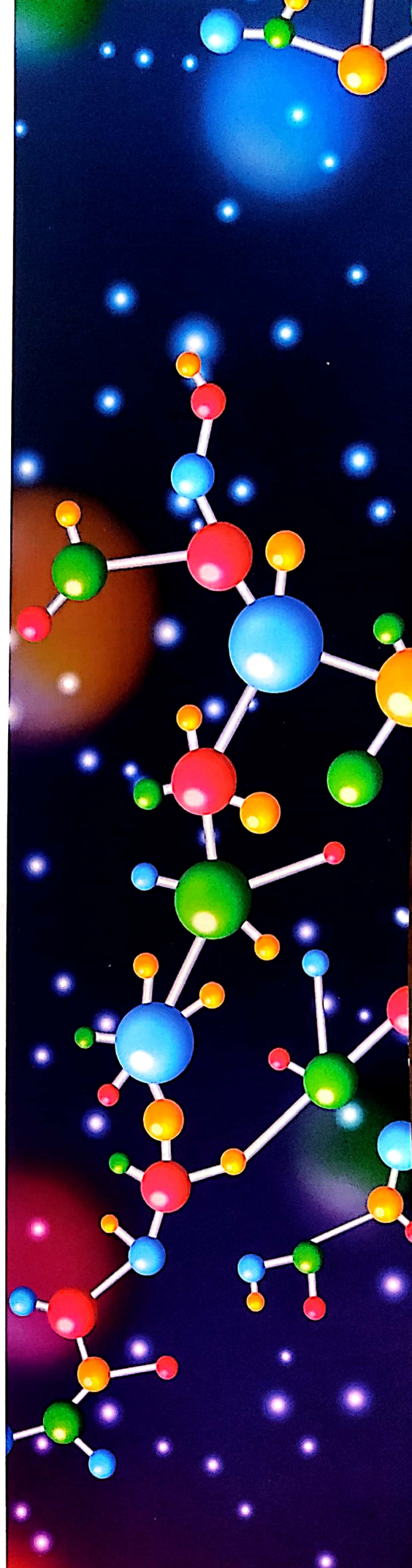
Invati Creations Private Limited

📍 63R, Mahanirban Road, Kolkata, West Bengal, 700029

☎ +9193301 33944 ✉ info@invati.in

🌐 www.invati.in

🌐 [/invati-creations](https://www.linkedin.com/company/invati-creations) [/invati.creations](https://www.facebook.com/invati.creations) [/invati.in](https://www.instagram.com/invati.in)



ABOUT US



Founded by alumni of IIT Kharagpur & IIM Kolkata, Invati Creations Private Limited has emerged as a nanotechnology invention company. The founders have more than 75 international patents on Nanotechnology and various other fields. We offer a novel Nano Mineral Solution for food fortification to combat anaemia and mineral deficiency, especially in women and children in India. Our research team is also pioneering Lithium-Ion (LFP) batteries, aiming for 3000-5000 charge cycles with fast charging. We are testing new cathode materials for advanced fast-charging capabilities. For more information, contact us at info@invati.in.

OUR CO-FOUNDERS

Dr. Nilanjan Deb

M.Sc. (Ag), M.Tech. (IIT,Kharagpur), Ph.D.



An inventor, experienced professor, and co-founder of Invati with more than two decades of experience. Published/filed 75 international and national patents in the fields of nanotechnology, polymer science, polymeric semiconductor, electronic sensor devices, metallurgy, agriculture, food processing. An institution in itself who thrives to explore, work & develop niche & unique technological solutions. He has co-authored various books and had been visiting faculty in various institutions, guest speaker at convocation, and seminars. Dr Deb has received numerous awards and recognition across the globe.

Mukeshh Agarwal

IIM Kolkata



Mukeshh is co-founder of Invati with over 18 years of work experience. He is a dynamic, self-driven entrepreneur, an ex-alumni of IIM Kolkata, and found himself chasing his entrepreneurial ambitions as early as 1999. A doer-cum-visionary, Mukesh's string of successes include three flourishing retail ventures in the jewellery, designer apparel, and men's wear segments. In 2006, he took up even bigger challenges, when he moved to Mumbai, and joined an automobile giant as business head. An angel-investor having diversified investment portfolio ranging from structural lights, vegetation, online gaming, F&B & financial services. His key area of focus includes strategy entity set-up & marketing.



Metal & Metal-oxide
Nanoparticle

Nano Nutrients
for Agriculture
Nano Nutrition
for Humans
Innovative
Materials

Nano Medicine
& Nano Sensors

Drug
Delivery
Nano Sensors
for Diagnosis
Cancer
Treatment

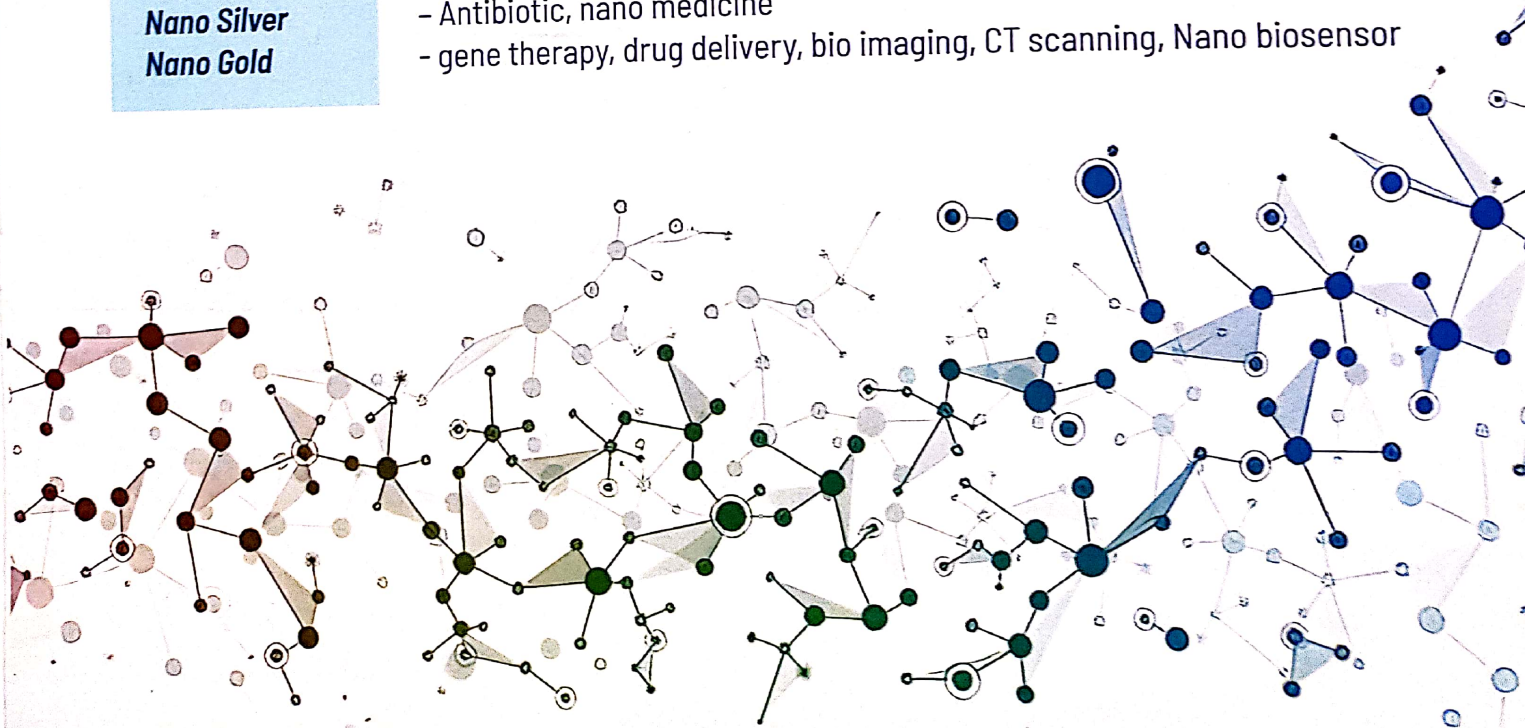
Nano Electrodes for
Li-ion Batteries

Nano LFP
Nano Graphite-silica
Anode
Other Nano
Electodes

INVATI NANO PRODUCTS

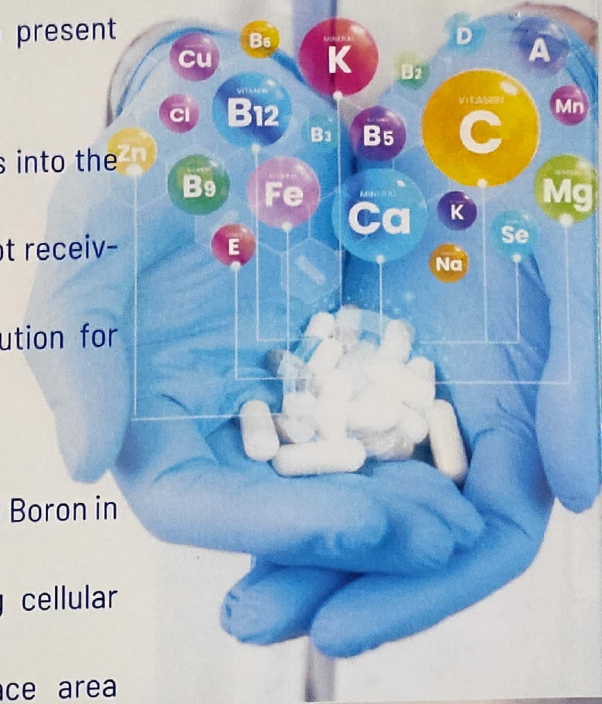
Nano Urea
Nano Zinc
Nano Boron
Nano Iron
Nano Carbon
Nano Selenium
Nano Potassium
Nano Sodium
Nano Silver
Nano Gold

- for agriculture, catalytic converter, medicine
- Plant nutrient , nano mineral for human, rubber, Paint
- plant nutrition, nanomedicine
- nano mineral for human health
- thermal fluid, supercapacitors, energy storage
- nano nutrition for poultry, hair serum(anti dandruff)
- plant nutrient
- electrolyte
- Antibiotic, nano medicine
- gene therapy, drug delivery, bio imaging, CT scanning, Nano biosensor



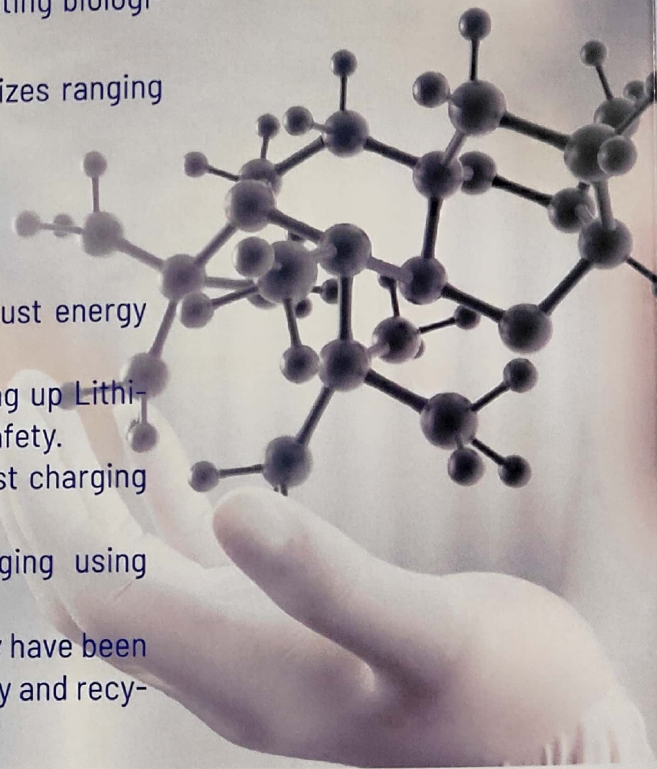
Why nano-scale minerals are better than present mineral compounds?

- Nano scale minerals have higher bioavailability compared to present mineral compounds.
- Most mineral absorption occurs in the small intestines.
- The small intestine is lined with microvilli that absorb nutrients into the bloodstream.
- The absorption process can be impaired, leading to the body not receiving essential nutrients.
- Nanoparticles of essential minerals provide an effective solution for better nutrient absorption in the body.



Salient Features of Invati Nano Minerals

- Invati Nano Minerals include Iron, Zinc, Magnesium, Calcium, and Boron in nano-form (< 100 nm).
- Nanoparticles have an acceptable zeta potential, enhancing cellular uptake and reducing unwanted interactions.
- Nano-scale minerals exhibit a dramatic increase in surface area (2000-3000X) compared to native forms, significantly boosting biological activity.
- Uses a novel carrier, water-soluble carbon, with particle sizes ranging from 100-1000 nm.
- Proven safe through a series of clinical trials.



Nano Li-ion Electrodes Invati Sodium ion battery

- Rechargeable lithium batteries are crucial for more than just energy storage; they are essential for a sustainable future.
- The Invati research team focuses on developing and scaling up Lithium-iron-phosphate (LFP) batteries for longer lifespan and safety.
- The goal is to achieve 3000 to 5000 charge cycles with fast charging capability.
- New cathode materials are being tested for fast charging using advanced rocking chair and solid rock phenomena.
- Sodium ion nanostructures with excellent structural stability have been synthesized and are currently being tested for charge density and recyclability.

Supercapacitor for future energy storage

- Development of Supercapacitors (SC) from facile synthesized graphene oxide is underway.
- Supercapacitors are unique electrochemical devices with high energy and power densities.
- Applications include electric vehicles and power tools.
- Scientists at Invati have synthesized and patented graphene oxide for supercapacitors.
- These supercapacitors are particularly useful for hybrid electric vehicles (EV) and backup power supplies.



NANO I TECHNOLOGY

A start-up company for nanoemulsion-based products

Portfolio focused on effective, safe, and sustainable products

Three patents on nanoemulsion formulations

Key areas of focus:

- Aquaculture, Agriculture, and Food industries

Nanoemulsion products:

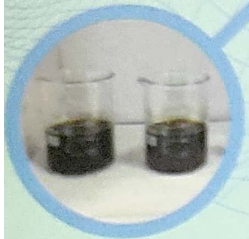
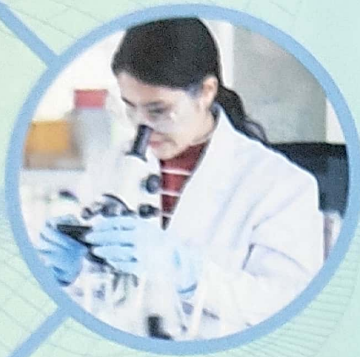
- Nanoemulsions infused Feed-based shrimp growth
- Nanoemulsions for shrimp pathogen management
- Edible nanoemulsions for fruit/Vegetable preservation
- Pesticide detox nanoemulsion
- Nanoemulsions for ESKAPE pathogens management

Highlights of Nanoemulsion

- 100% safe composition
- Affordable price
- User friendly

- **Founder: Dr. R. Karthikeyan, M.Sc. M.Phil., Ph.D.**
- **CEO : Ms. A. Ishwariya, B.E., B.A., MBA, PGDMKD**
- **Email: Nanoltechnology@gmail.com**
- **Mobile: +917502534668; +918012062224**





Safety for Humans & Animals

- Test was conducted on extracts on ISO 10993-5-2009.
- Non toxic to humans and animals.
- 99.99% bacteria are killed.
- 99.99% Antifungal agent.
- Even after prolonged UV exposure or rigorous cleaning procedures, the antibacterial properties do not diminish over time.
- Non- Poisonous, Non- Allergic, Fast acting, Highly effective.

ABOUT COMPANY

Scitechesy Research And Technology Private Limited is a distinguished Manufacturer and Supplier of Silver nanoparticles based paste (Silver Paste), Colloidal Silver Nano Particles, and Silver Nano Powder. We are located at Varanasi, Uttar Pradesh, India with a modern production base having advanced technology machines and tools to develop the best for the clients.



Contact Information



+917518106016 | +919044811140



www.scitechesy.com



info@scitechesy.com



CDC Building, BHU, Varanasi



SCITECHESY RESEARCH AND TECHNOLOGY PVT. LTD

Startup India DIPP Recognized Company



FOUNDER & DIRECTOR
Dr. Fanindra Pati Pandey
Ph.D (Physics), BHU.





Autarkic India

Changing the Rules of the Game

Autarkic India, with the use of Ray Nano Urea, can achieve self-sufficiency in fertilizer production, reduce import dependency and minimize foreign currency outflow. The adoption of Ray Nano Urea technology can lead to a more sustainable and eco-friendly agriculture sector, improving crop yield and quality while reducing environmental pollution.

It can also help in reducing the carbon footprint of the agriculture sector and contribute to India's goal of achieving a greener future.

Discover the Future Of Agriculture with

Nano Urea



(<https://wa.me/917284096666?text=Hi>)

Nano urea is a new form of urea fertilizer that is created by breaking down conventional urea into tiny particles that are around 100 nanometers in size. This process is achieved using nanotechnology techniques such as high-pressure homogenisation and sonication. The resulting nano urea particles have several advantages over traditional urea. They are more efficient in terms of nutrient uptake, reducing the amount of fertilizer needed to achieve the same results.





UPTO 8% YIELD
GAIN



REDUCED COST OF
TRANSPORTATION



REDUCED COST OF
LABOUR



LESSER STORAGE
SPACE



REDUCTION IN AIR
& SOIL POLLUTION

Unlock the Power of Green

Ray Nano Science & Research Centre

We are a leading manufacturer and supplier of innovative Nano fertilizers designed to improve the efficiency and sustainability of agriculture. We are committed to providing farmers with the best possible solutions to increase their crop yields, while also reducing environmental impact and promoting sustainability.

At Ray Nano Science & Research Centre, we pride ourselves on our commitment to quality, safety and sustainability. Our products are manufactured in state-of-the-art facilities using the latest technologies and processes to ensure that they meet the highest standards of quality and safety.



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Imagine the World Where

Top Dressed Urea is 100% Replaced with Nano Urea



>30%

in Agro CO₂



>25%

in Agro N₂O



8%

in Agro Yield



75K Cr

Subsidy Savings

Stay in the Loop of the World of Agriculture

(<https://wa.me/917284096666?text=Hi>)

News & Updates



India's Urea Giant HURL Signs Landmark Agreement With Ray Nano Science
(<https://raynanofertilizer.com/indias-urea-giant-hurl-signs-landmark-agreement-for-nano-urea-technology/>)

We are thrilled to announce a groundbreaking partnership between Hindustan Urvarak & Rasayan Limited (HURL), and Ray Nano Science & Research Centre. This strategic collaboration

READ MORE »
([HTTPS://RAYNANOFERTILIZER.COM/INDIAS-UREA-GIANT-HURL-SIGNS-LANDMARK-AGREEMENT-FOR-NANO-UREA-TECHNOLOGY/](https://raynanofertilizer.com/indias-urea-giant-hurl-signs-landmark-agreement-for-nano-urea-technology/))

20/06/2024



Breaking Boundaries: Ray Nano Science Granted Export Permission for Nano Urea by Ministry of Chemicals & Fertilizers
(<https://raynanofertilizer.com/breaking-boundaries-ray-nano-science-granted-export-permission-for-nano-urea-by-ministry-of-chemicals-fertilizers/>)

Introduction: We are thrilled to announce a significant milestone for Ray Nano Science & Research Centre – the attainment of export permission from the Ministry of

READ MORE »
([HTTPS://RAYNANOFERTILIZER.COM/BREAKING-BOUNDARIES-RAY-NANO-SCIENCE-GRANTED-EXPORT-PERMISSION-FOR-NANO-UREA-BY-MINISTRY-OF-CHEMICALS-FERTILIZERS/](https://raynanofertilizer.com/breaking-boundaries-ray-nano-science-granted-export-permission-for-nano-urea-by-ministry-of-chemicals-fertilizers/))

27/12/2023



Ray Nano Science & Research Center signs MOU in Vibrant Gujarat 2024
(<https://raynanofertilizer.com/ray-nano-science-research-center-signs-mou-in-vibrant-gujarat-2024/>)

In an exciting development, Ray Nano Science & Research Centre, led by Rahul Doshi and Kartik Doshi, has officially signed a Memorandum of Understanding (MOU)

READ MORE »
([HTTPS://RAYNANOFERTILIZER.COM/RAY-NANO-SCIENCE-RESEARCH-CENTER-SIGNS-MOU-IN-VIBRANT-GUJARAT-2024/](https://raynanofertilizer.com/ray-nano-science-research-center-signs-mou-in-vibrant-gujarat-2024/))

13/10/2023

It is better to bring the change, rather than to witness it

Partner with us to grow your business while making positive impacts on the environment and lives of farmers.

BECOME A DEALER
([HTTPS://RAYNANOFERTILIZER.COM/DEALERSHIP/](https://raynanofertilizer.com/dealership/))



(<https://wa.me/917284096666?text=Hi>)



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RAY NANO SCIENCE & RESEARCH CENTRE

OUR PRIDE



LIQUID NANO
UREA GOLD

A leading manufacturer and supplier of innovative Nano fertilizers designed to improve the efficiency and sustainability of agriculture.

Follow Us On
Facebook

(<https://www.facebook.com/people/Ray-Nano/100090787238342/?mibextid=LQQJ4d>)

WE ARE HERE



THANKS

CONTACT US

Ray Nano Science & Research Centre
38, Opp. Pine Ca
G. I. D. C.
Vithal
Udyog
38812
Anand
Gujarat,
INDIA

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