To make lives healthy and the planet happier



#### Orish J Bioworks Pvt. Ltd.

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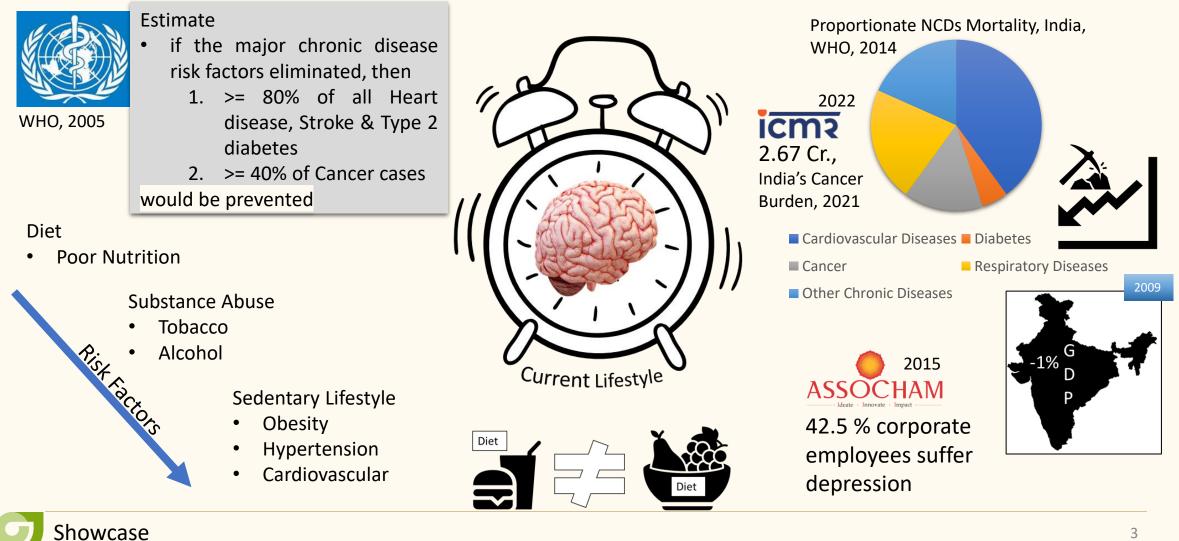
**UN ESCAP** 

02 12 2022 09:45 h

CIN: U15146DL2021PTC386620 DIPP No.: 103807 New Delhi

# **Problem**

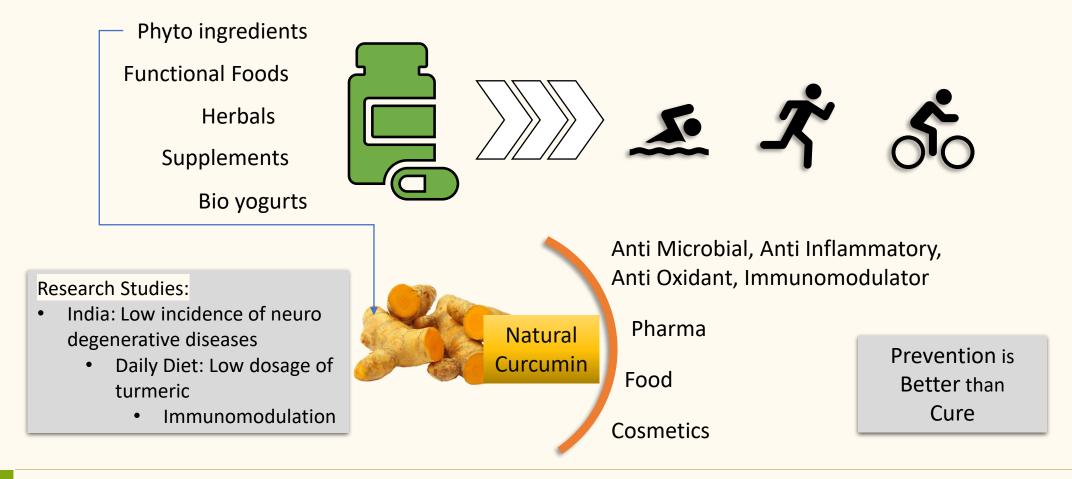
#### **Disease Prevention: Chronic Non-Communicable Diseases**



# **Solution**

#### Nutraceuticals: Nutritional Deficiency

*'Disease Prevention and Health Promotion requires a multidimensional approach on a sustained basis. Addressing nutritional deficiency is an important pillar of preventive healthcare.'* 



#### Nanocurcumin: The Innovation (Patent No. 298432)

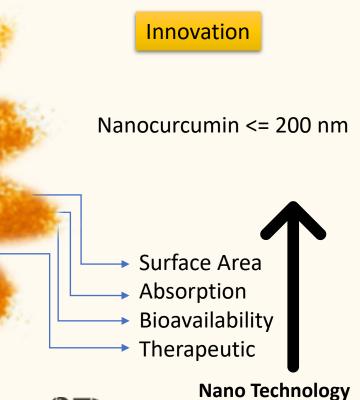


Natural Curcumin = 1 -2 micron

Poor bioavailability \_\_\_\_\_ Limited therapeutic effect \_\_\_\_ Body removes 75% \_\_\_\_\_

> Has Taste Has Smell



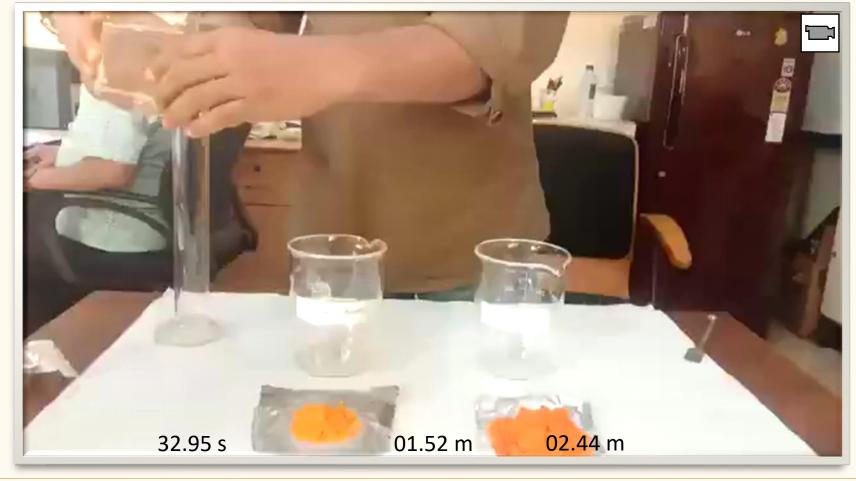


PROPERTY **INDIA** 

- Process
- Product
- Application

#### Nanocurcumin: Water Dispersion

Nanocurcumin: Higher dispersibility in water



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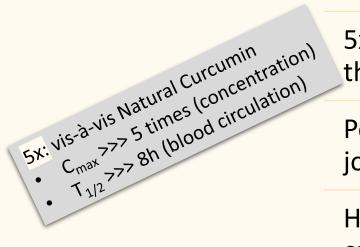
#### Nanocurcumin Unique Selling Propositions

Never Before Solution 100% Natural: no chemical modifications

- 1. >= 90% purity
- 2. Nanotized without carrier particles

90% Purity: high therapeutic potency

Nanotized: no carrier particles



5x Bioavailability (mice model): better therapeutic properties

Peer Review: 9 leading international journals

Human Observatory Study: 100 stage 4 cancer patients

'Nanotized curcumin in 100% natural form, with 90% purity, 5x bioavailability, and pre-clinical studies, fit for human and animal nutrition, and protected by intellectual property.'

Value Proposition

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#### Nanocurcumin: Use Cases

Anti Inflammatory: pain relieving • Improves Sleep Deworms Children Anti Oxidant: anti cancer• Improves Dental Health Anti Microbial: anti bacterial, anti viral • Improves Cognitive Function Immunomodulator: immunity • Detoxifies Chemotherapeutic Agents **Safety** Pre-clinicals: 14 days acute Toxicity Efficacy Pre-clinicals: 90 days multiple dose chronic Toxicity • Bio-availability: C<sub>max</sub> **Reproductive Toxicity** Blood Circulation: T<sub>1/2</sub> Anecdotal: 100 Stage 4 human cancer patients

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#### Publications

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#	Publication	Topic
1	Oral delivery of curcumin bound to chitosan nanoparticles cured Plasmodium yoelii infected mice	Malaria
2	MEK inhibition prevents tumour-shed transforming growth factor-β-induced T- regulatory cell augmentation in tumour milieu	Tumour/ Cancer
3	Nanoparticle-Formulated Curcumin prevents Post therapeutic Disease reactivation and reinfection with Mycobacterium tuberculosis following Isoniazid therapy	Tuberculosis
4	Chronic hypobaric hypoxia induces right ventricular hypertrophy and apoptosis in rats: therapeutic potential of nanocurcumin in improving adaptation	Hypoxia/ Respiratory Distress
5	Curcumin Nanoparticles Enhance BCG Vaccine Efficacy by Modulating Host Immune Responses	Tuberculosis/ BCG Vaccine
6	Nanocurcumin protects cardiomyoblasts H9c2 from hypoxia-induced hypertrophy and apoptosis by improving oxidative balance	Hypoxia/ Respiratory Distress
7	Nanocurcumin Prevents Hypoxia Induced Stress in Primary Human Ventricular Cardiomyocytes by Maintaining Mitochondrial Homeostasis	Hypoxia/ Respiratory Distress

#### **Publications**



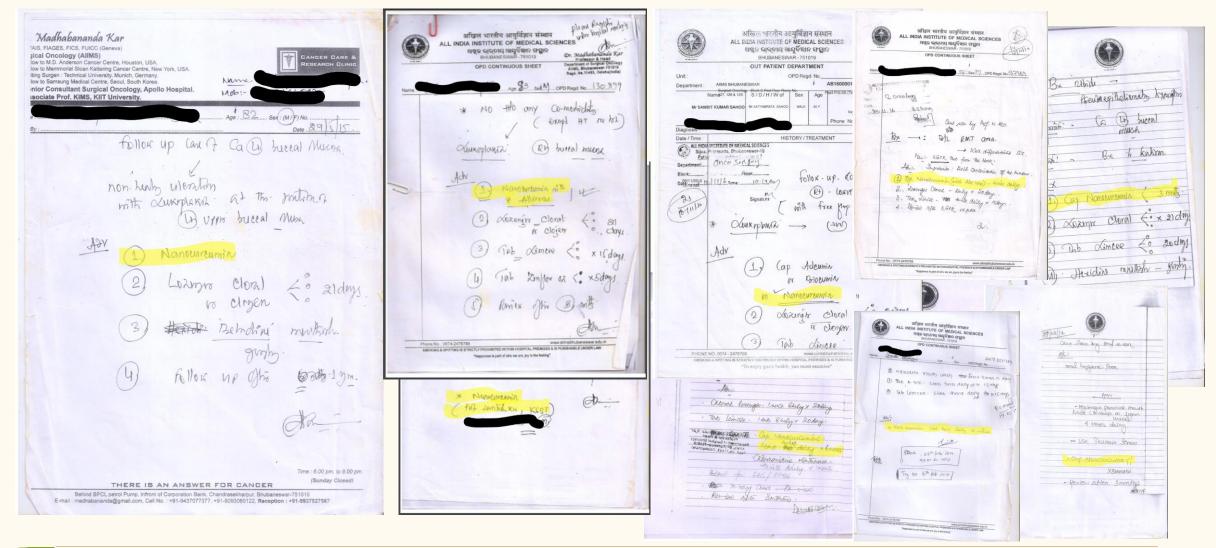
Nanocurcumin accords protection against acute hypobaric hypoxia induced lung injury in rats	Hypoxia/ Respiratory Distress
Nanocurcumin-pyrroloquinoline formulation prevents hypertrophy-induced pathological damage by relieving mitochondrial stress in cardiomyocytes under hypoxic conditions	Hypoxia/ Respiratory Distress
Oral Therapy Using a Combination of Nanotized Antimalarials and Immunomodulatory Molecules Reduces Inflammation and Prevents Parasite Induced Pathology in the Brain	Malaria
Comparison of the effectiveness of Curcumin and Benzydamine mouthwash on oral mucositis in head and neck cancer patients scheduled for radiotherapy – A Double Blinded Randomised Controlled Clinical Trial	Oral Mucositis
	hypobaric hypoxia induced lung injury in rats Nanocurcumin-pyrroloquinoline formulation prevents hypertrophy-induced pathological damage by relieving mitochondrial stress in cardiomyocytes under hypoxic conditions Oral Therapy Using a Combination of Nanotized Antimalarials and Immunomodulatory Molecules Reduces Inflammation and Prevents Parasite Induced Pathology in the Brain Comparison of the effectiveness of Curcumin and Benzydamine mouthwash on oral mucositis in head and neck cancer patients scheduled for radiotherapy – A Double Blinded Randomised



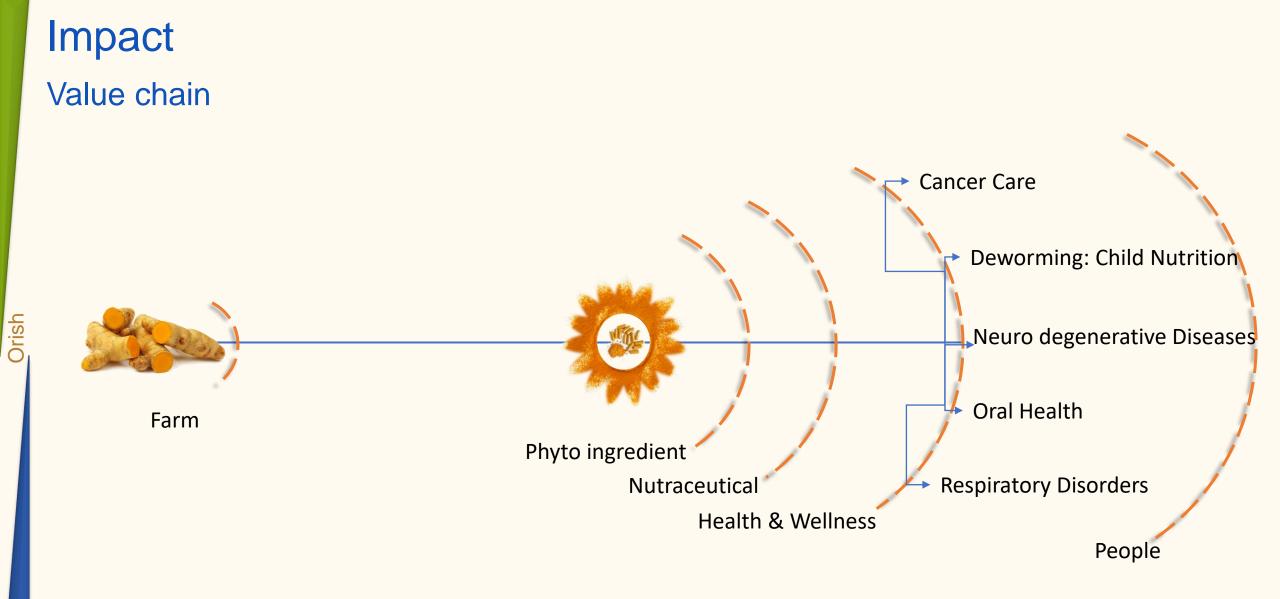
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#### Prescriptions: Oncology, AIIMS, Bhubaneswar



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