

Coromandel Plant Nutrients



NPKs & SSP



Vizag plant

Speciality Nutrients







Biomining of Municipal waste

- Started as a JV between IMC, Chevron, EIDParry in 1961
- Largest NPK & SSP fertiliser marketer in India
- Manufacturing 13 grades 39% unique (with secondary & MNs)
- nurugappa

- 1st Bentonite Sulphur/ Sulphozinc plant in India
- Largest manufacturers of WSFs (Foliar & Fertigation) - JV with WSF major SQM
- Pioneers in Organic Fertilisers:
 Markets ~1.5 lakh tons pa
- Soil amendment City Compost, pressmud
- Soil enrichment- Molasses, Oil cake

3

3

Coromandel Crop Protection & Bio Pesticide

Mido.



Significant Manufacturing presence



Bio pesticide plant (neem based)

- Technical exports to 80 countries; Bio exports to US, Canada & Europe
- Largest neem based Azadirachtin manufacturers globally purugappa

Ably supported by R&D Team



R&D Centre

- 2 modern R&D facility New products,
 delivery mechanisms, microbial research
- Technology partnerships with Japanese & Chinese players

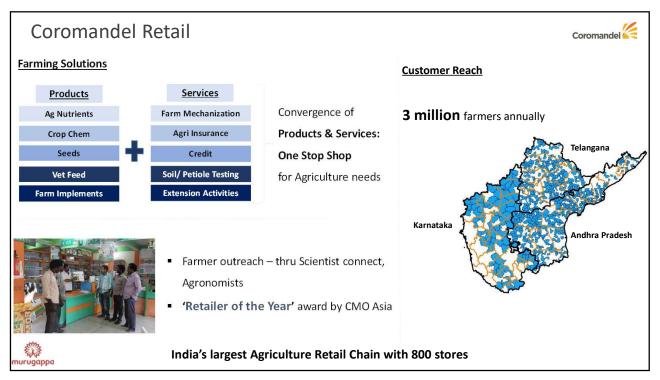
Wide range of products

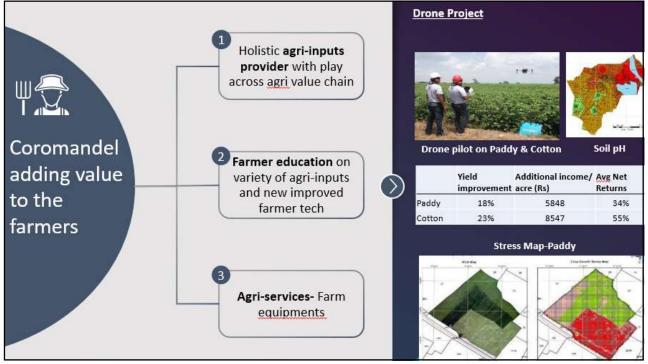


Injection based application

- Wide product portfolio ~60 brands
- Rich pipeline with greener chemistries
- Injection based application for forestry

Δ





Technology driven Farming Interventions



Uberizations of Farm : Custom Hiring Centers



Webinar with agri scientists



Soil tests kits to the farms



E kiosks for last mile delivery



Drone based crop diagnostics services



Gromor Nutrient Manager- ~0.3 million RoI based recommendations annually

Doing it Responsibly: Birds' Paradise

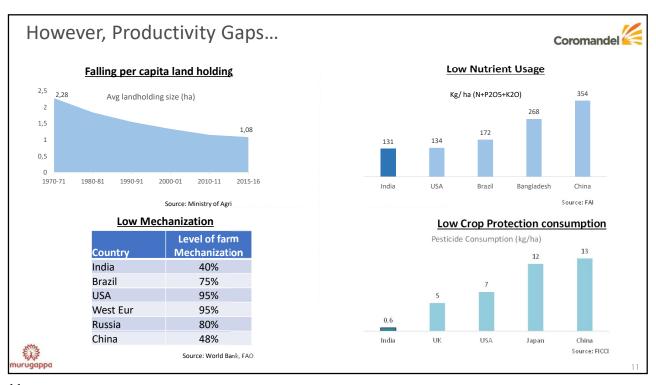
- Bio-Diversity at Coromandel's Kakinada Plant home to ~100 bird species
- Home to 4000+ birds:
 - Breeding species: 13
 - Long distance migratory species: 24
- Recognized by **UNDP** 'Turning a Factory into a Bird Sanctuary'
- Extensive coverage by Discovery

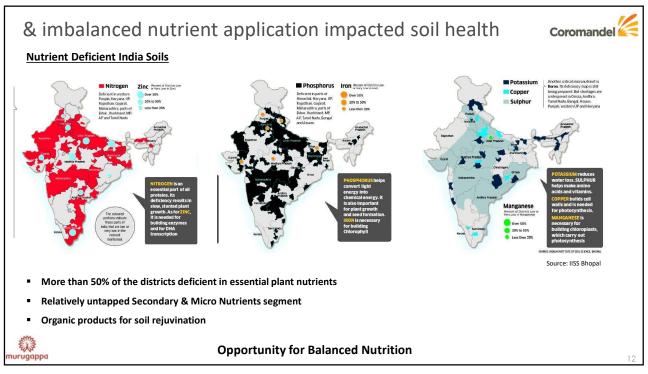


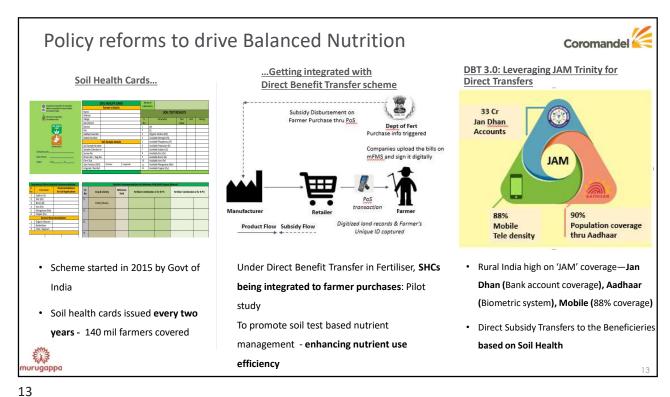


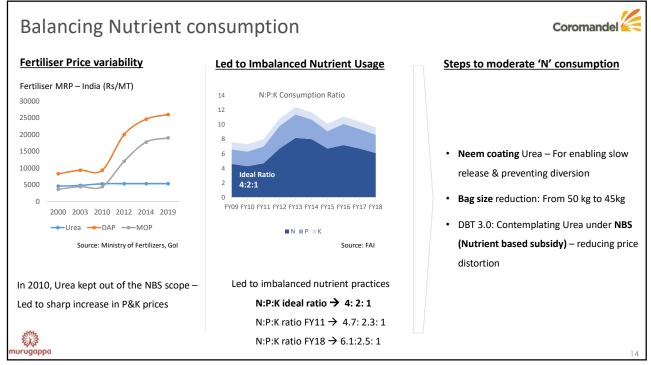


Indian Agriculture: Achieving Self Sufficiency Coromandel **Driven by Green Revolution** ...Achieved Self sufficiency in Cereals & improved nutrient usage Crop % Share Ranking High Yielding Variety Pulses 23% Seed Replacement Rate Oilseeds 1st 11% Cotton 1st 29% Crop Chemicals usage F & V 2^{nd} 11% Improved irrigation coverage 2nd Sugarcane 20% Mechanization Cereals 11% 3rd largest Agriculture producer globally 7th largest Agri exporter Since Green Revolution, food production has multiplied 3.7 times while population increased by 2.5 times









Use of Technology & Smart Fertiliser



Agri-tech as enabler for "smarter" farming



Data generation (Sense) In-field sensing Remote sensing Proprietary data Public data



Algorithms (Infer)

Monitoring Analysis Predictions



Smart equipment (Act) Drones and Robotics Implement. Variable rate applicators.

sis ctions

Alternate delivery mechanisms for nutrient application

Nutrient Uptake Efficiency

	Soil Application	Drip + Soil Application	Drip + Fertigation
N	30-50%	65%	95%
P2O5	20%	30%	45%
K2O	60%	60%	80%

Source: Fertiliser Marketing News

Fertigation

- Increase in Water Use Efficiency: 50 90%
- Productivity Increase: 40-50%

Slow & Control Release fertiliser

- 20-30% reduced application
- Reduced toxicity & Labour savings

1



Emerging trends in Agri sector in India Coromandel **Themes Implications Themes Implications** Rising pressure Micro-irrigation to gain Rise of Digital presents a great opportunity on natural prominence; delivery models for digital to drive personalization and agri-inputs will change farmers farmer connect resources Changing Growth in F&V, Pulses will Farm Completely new platforms to increase demand for agri inputs Technology deliver agri inputs and agri services dietary patterns and for cold chain solutions advancementsto farmers Agri cos. can partner with output Better distribution and storage Evolution Evolution of of farm marketers, contract farmers to logistics efficiencies will increase earnings holdings secure input credit & purchasing power of farmers Farm Shared service models for farm Government Growth in farmer incomes and labour equipment will gain prominence purchasing power ...but interventions shortages incentivization of land division Financial Rising financial liquidity could sector enable greater spend on specialty

17

urugappa

involvement

agri inputs



