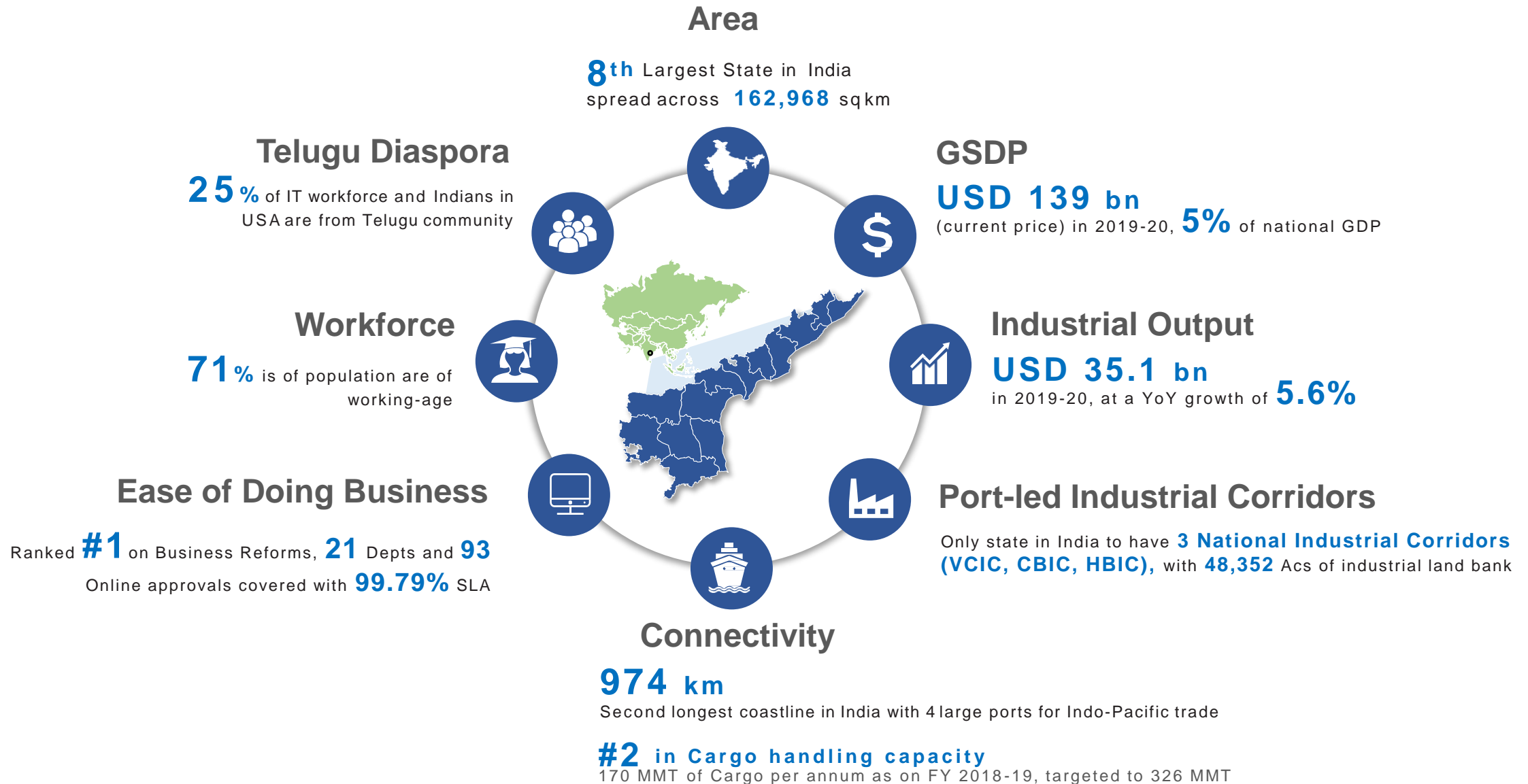


Government of Andhra Pradesh

Ranked in “10 Best Places for Manufacturing in India”



Andhra Pradesh – Driving India's Transformation

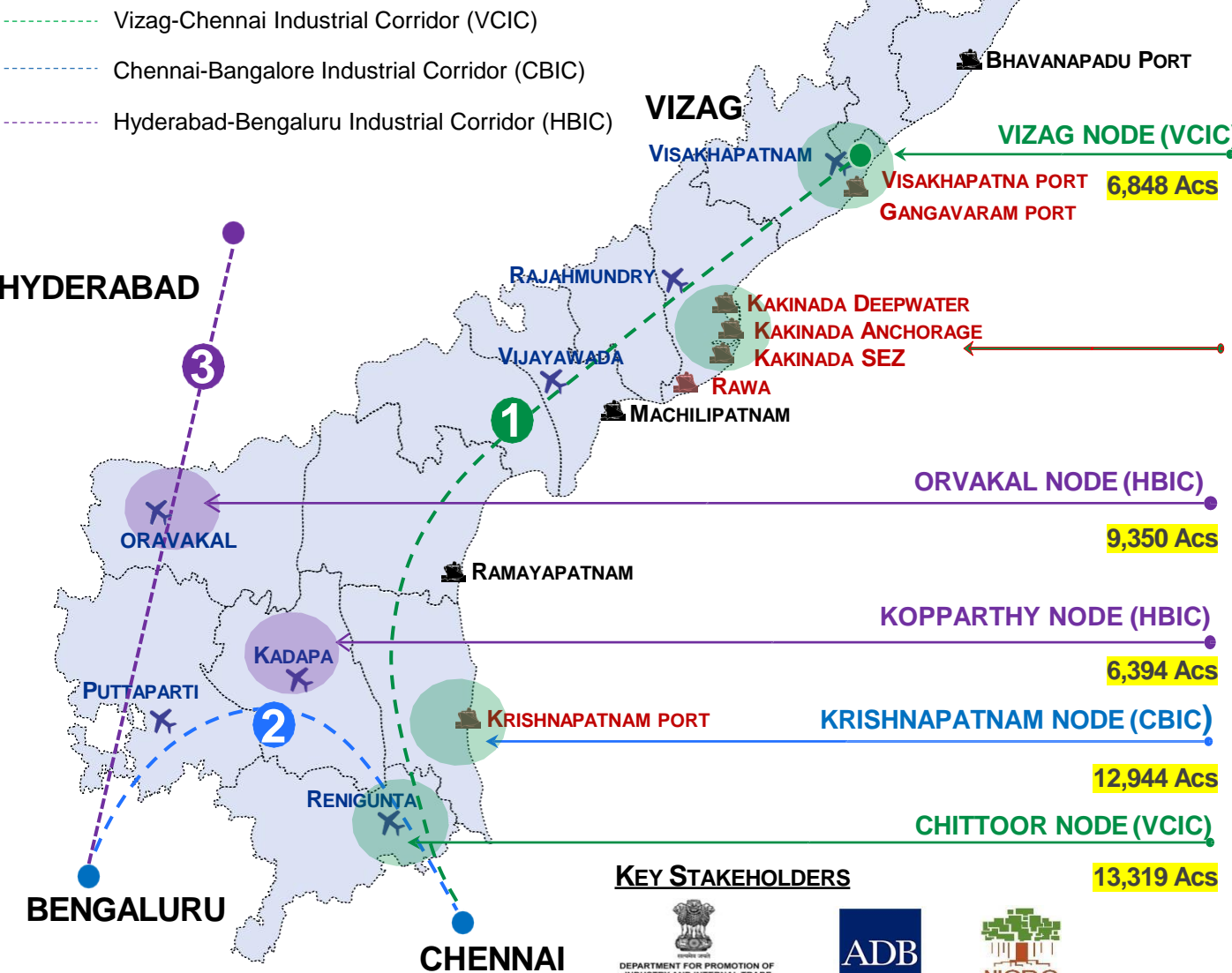


Advantage AP – Corridor and Port-led Industrial Development

Only state in India to have 3 National Industrial Corridors, across 48,352 Acres of land bank



#2 in Cargo handling capacity
 170 MMT of Cargo per annum as on FY 2018-19, targeted to 326 MMT



VISHAKAPATNAM PORT
Capacity: 125 MMT PA
 (Iron ore, Granite, Metals, Coal, Rice, Petroleum products)

New Ports Planned

KAKINADA PORT
Capacity: 14 MMT PA, upgrade to 27 MMT PA
 (Rice, Maize, Granite, Dedicated berth for Petrochemical complex)

- Machilipatnam
- Ramayapatnam
- Bhavanapadu
- Kakinada SEZ

New Airports Development

KRISHNAPATNAM PORT
Capacity: 54 MMT PA
 (Barytes, Quartz, Agro-based, Liquid Storage for LPG, LNG, POL Products)

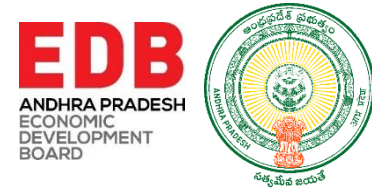
- Orvakal Airport
- Bhogapuram, Vizianagaram
- Dagadarthi, Nellore

Ready Built Factories

- Plug & Play at all APIIC Industrial parks
- Competitive Rentals

KEY STAKEHOLDERS

Overview of Chemicals and Petrochemicals Sector in Andhra Pradesh



Ideal destination to tap the **USD 11 Bn worth India Opportunity** in Petrochemicals and drive exports in Chemicals sectors

8%
India's production value as on FY 2019-20 i.e., **USD 11.9 bn**

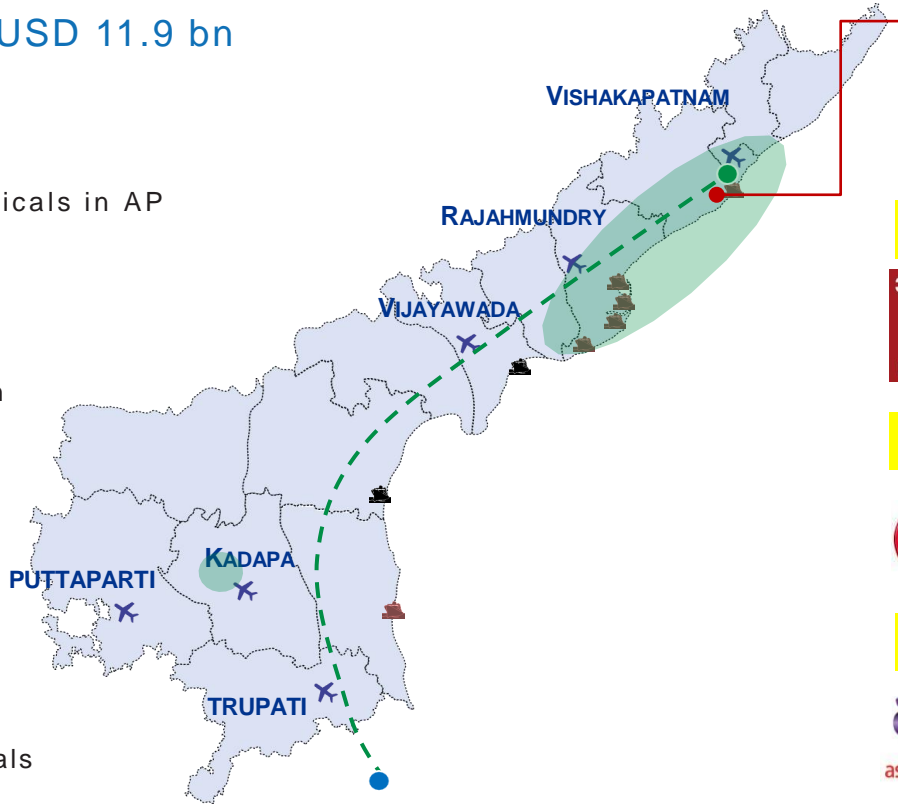
USD 2.4 Billion
Worth investments in Chemicals & Petrochemicals in AP

22%
Growth in AP Exports with **USD 2.1 bn** as on FY 2019-20

1,130 MMTPA
Home to maximum oil and gas reserves

640 Sq.km
Largest Petroleum, Chemicals and Petrochemicals Investment Region in India

5,100+
Mega and MSMEs employing **1.2 lakh** workforce



Largest PCPIR in the nation spread across 640 sq.km between Vishakhapatnam and Kakinada

Companies covering Pharma, Organic and Inorganic chemicals, Specialty Chemicals, Industrial Gases, Agro-chemicals and Fertilisers

Oil & Gas Exploration and Refinery Companies



Major Agro-Chemical Companies



Major Chemical Companies

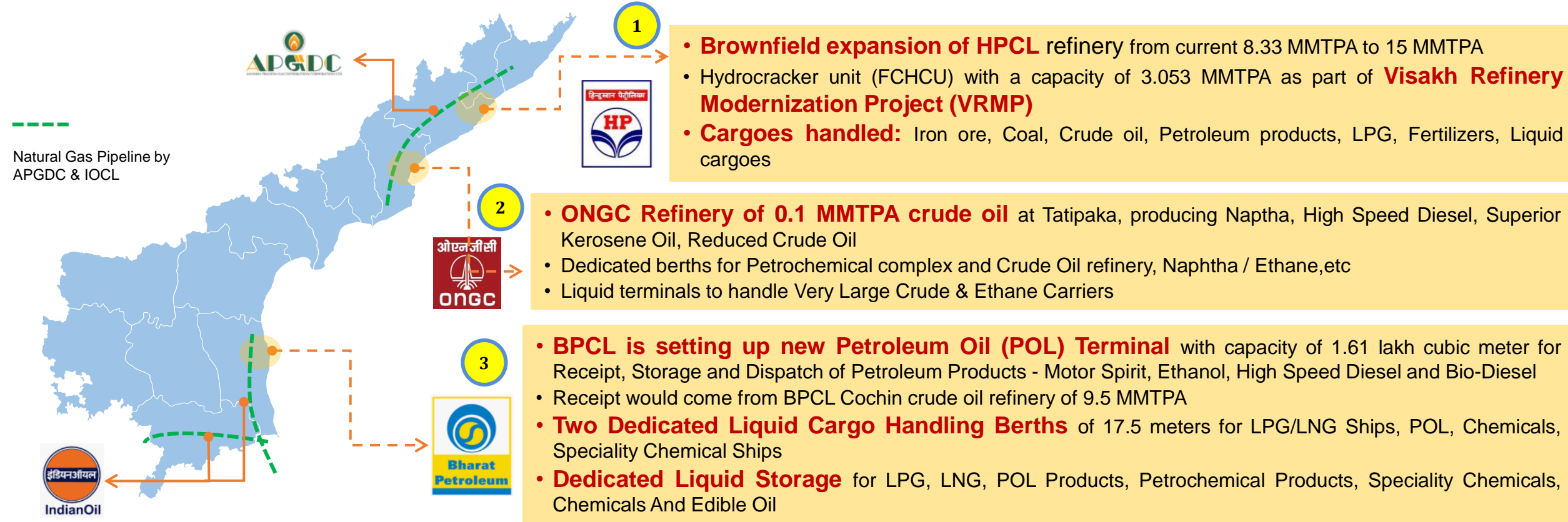


Major Pharma Companies



Presence of Refineries and Availability of Feedstock

Opportunity to build **Self-sufficiency** in Petrochemical Intermediates and drive downstream industries



1

- **Brownfield expansion of HPCL** refinery from current 8.33 MMTPA to 15 MMTPA
- Hydrocracker unit (FCHCU) with a capacity of 3.053 MMTPA as part of **Visakh Refinery Modernization Project (VRMP)**
- **Cargoes handled:** Iron ore, Coal, Crude oil, Petroleum products, LPG, Fertilizers, Liquid cargoes

2

- **ONGC Refinery of 0.1 MMTPA crude oil** at Tatipaka, producing Naptha, High Speed Diesel, Superior Kerosene Oil, Reduced Crude Oil
- Dedicated berths for Petrochemical complex and Crude Oil refinery, Naptha / Ethane, etc
- Liquid terminals to handle Very Large Crude & Ethane Carriers

3

- **BPCL is setting up new Petroleum Oil (POL) Terminal** with capacity of 1.61 lakh cubic meter for Receipt, Storage and Dispatch of Petroleum Products - Motor Spirit, Ethanol, High Speed Diesel and Bio-Diesel
- Receipt would come from BPCL Cochin crude oil refinery of 9.5 MMTPA
- **Two Dedicated Liquid Cargo Handling Berths** of 17.5 meters for LPG/LNG Ships, POL, Chemicals, Speciality Chemical Ships
- **Dedicated Liquid Storage** for LPG, LNG, POL Products, Petrochemical Products, Speciality Chemicals, Chemicals And Edible Oil

Natural Gas Pipeline by APGDC & IOCL

IndianOil

Bharat Petroleum

Opportunities across end-user industries in Andhra Pradesh

- 12.4%** Growth in **Specialty Chemicals** segment
- 12%** Growth in **Agro Chemicals & Fertilizers**
- 7.5%** Growth in **Petrochemical products**

- 2400+ units invested in **Plastics, Polymers and Allied**
- 4700+ Textiles unit invested within **Artificial, Synthetic, Man Made Fiber, Grey Fabric, Polyester fabric, Agro-textiles**

- Ranked #1 in **Horticulture** - Chillies, Cocoa, Lime, Papaya, and Tomato, Banana, Mango
- Ranked #2 in **Agriculture** in India, with 16000 FPU's

- 3 MTPA Integrated **steel plant**, *downstream industries*
- **Sector-specific parks** – *Pharma, Electronics, Furniture*
- **10,641 RBKs** planned to supply seed, fertilizers & seedling to agriculture, Aquaculture and Horticulture

AP PCPIR – Project Site and Overview

1 MMTPA
Feedstock to Downstream Integration Propane Dehydrogenation (PDH) Unit

INR 51,481 cr
Worth investments made in the PCPIR, INR 1,948 into Infra

1,39,627
Employment generated of the 12 mn potential employment

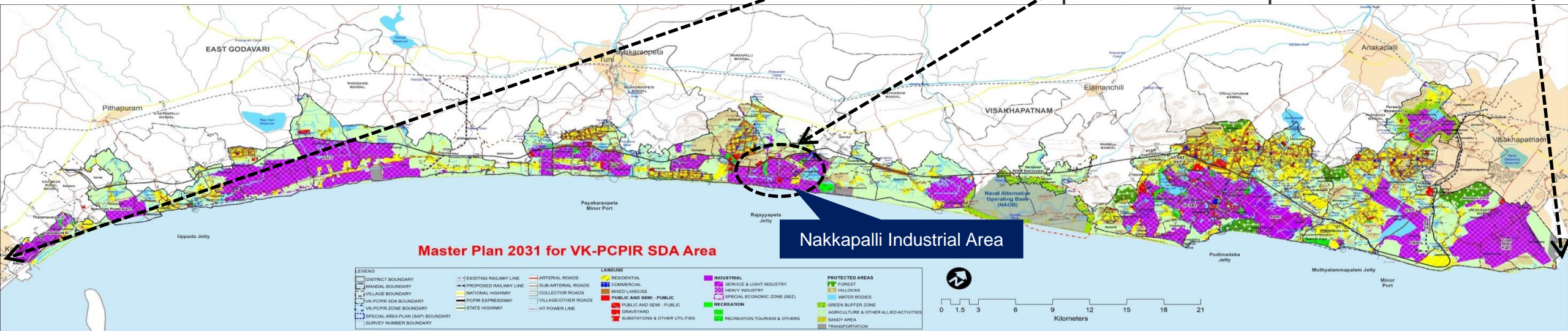
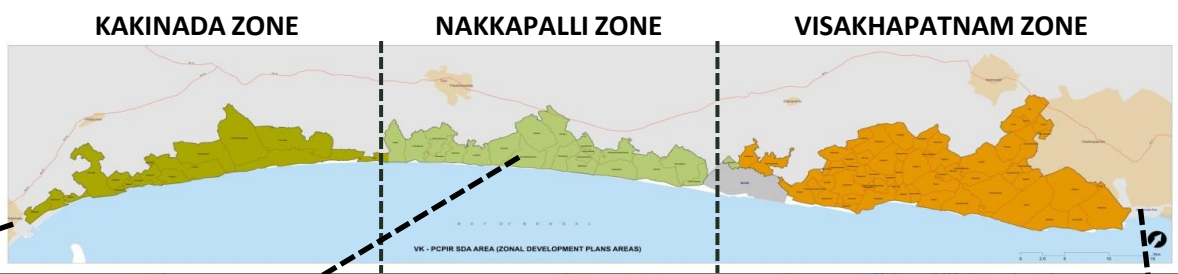
- Produce intermediates & generate feedstock for specialty chemicals/ APIs
- **40,000 tons PA** generation of white hydrogen

- **INR 9,660 cr** worth Import substitution of net propane
- Generate **130 MW of clean power** at Rs 5 per kwh and save 0.25 mn CO₂

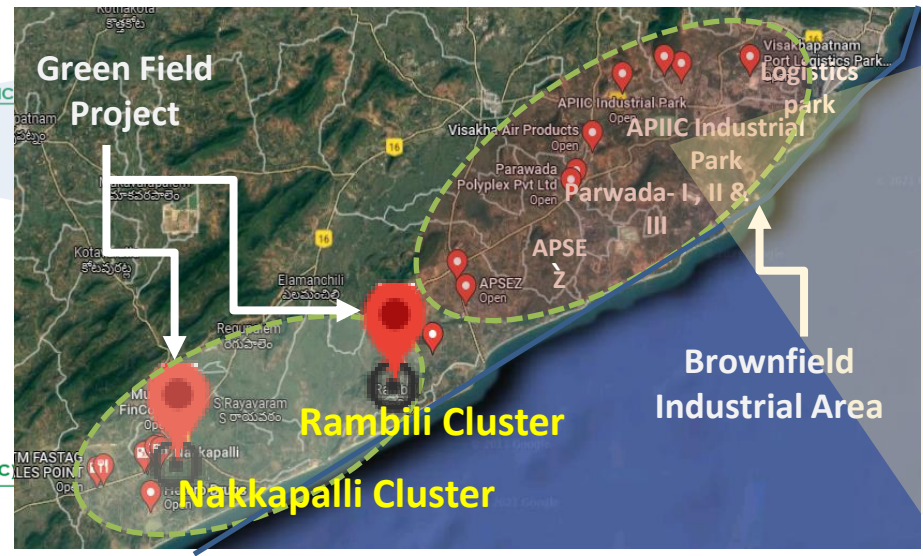
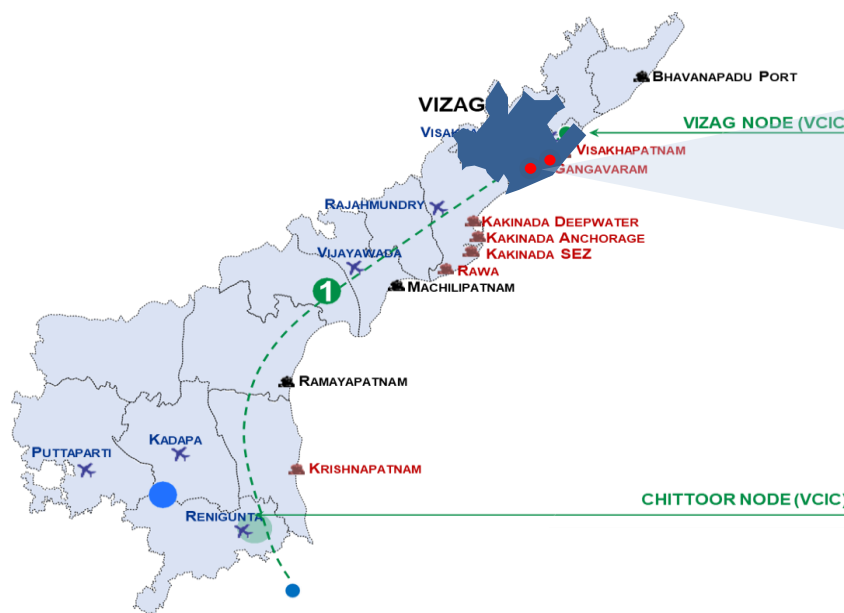
- **INR 5,850 cr** worth exports in Propylene intermediates, Specialty Chemicals, Technical Textiles, and Solar Cells

Status of Implementation

- Final Master Plan Report including Landscape Plans, Land Suitability Analysis, Land Zoning Plan submitted
- Public Consultation, EIA Studies, and Environmental Clearance availed
- USD 245 mn of ADB share expensed on infrastructure



AP PCPIR :: VCIC – Nakkapalli and Rambilli Clusters




EXISTING INDUSTRIES

LAND BANK

S No.	Industrial Cluster	Available Extent (Acs)
1	Nakkapalli	3,720.66
	Nakkapalli – Start up Area	931.30
2	Atchutapuram-Rambilli	1,640.04
	Rambilli Startup Ar. Phase-I.	373.57
	Rambilli Startup Ar. Phase-I.	95.31

Project Cost of INR 5,544 cr, funded by



ADB ASIAN DEVELOPMENT BANK

Agreement executed worth INR 3,442 cr

Funding released by ADB – INR 825 cr

74.4% 23.6%

Power

- 220/132/33 KV at Start-up
- 132 KV for water-intensive
- 20 MW Solar plant on



Water

- 39 MLD from VISWCO
- 10 MLD CETP
- Summer Storage Tank (1856 MLD)

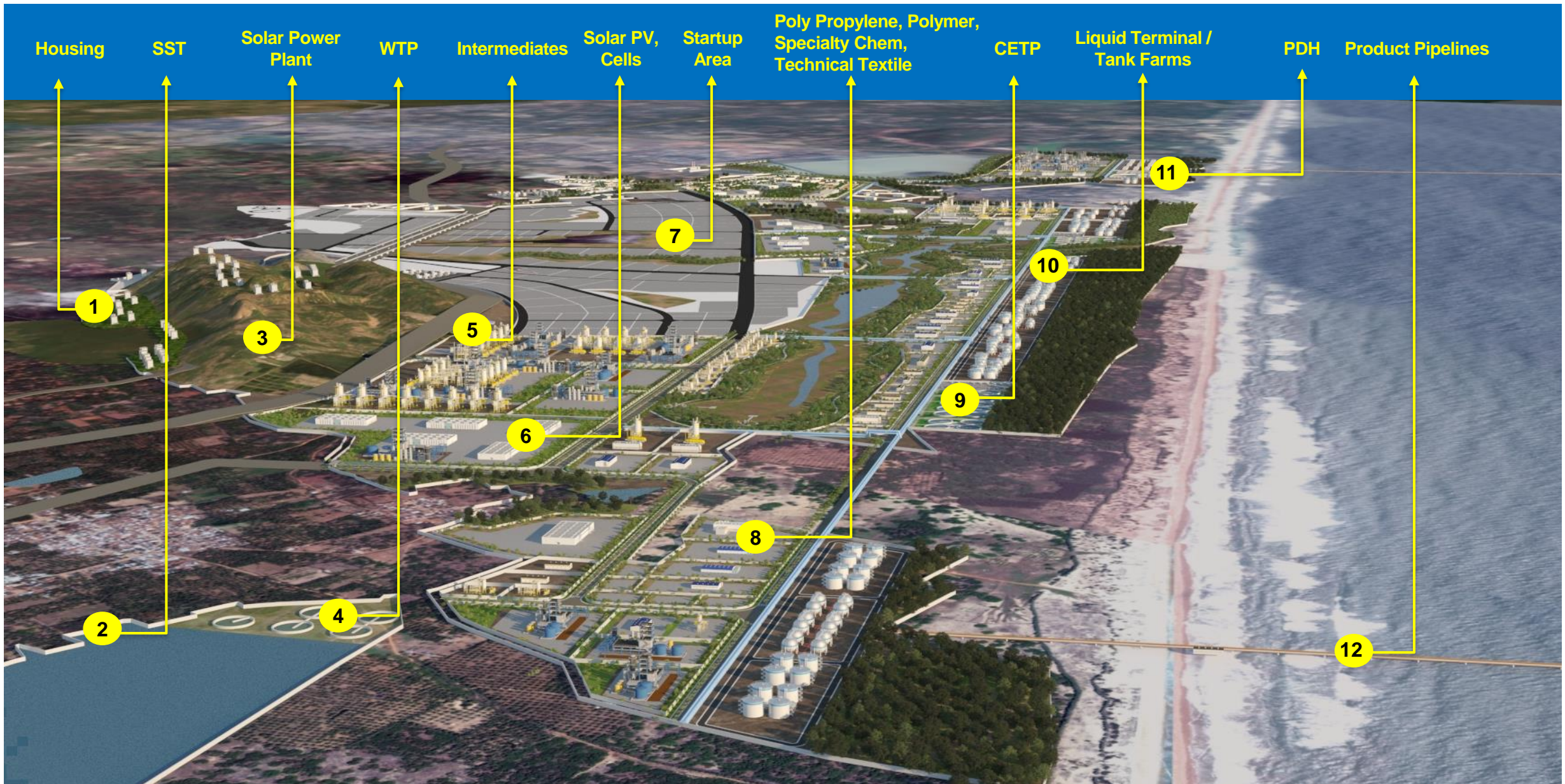


Product Mix

- Specialty Chemicals
- Petrochemicals (PP, PU, Intermediates)
- Technical Textiles, Med-Tech
- Solar PV, Cells



Nakkapalli Industrial Area – Industrial Zoning and Land Use Components



Presence of Supply Chain Linkages and Downstream Market

Andhra Med Tech Zone (AMTZ) - Asia's first dedicated medical devices park
BRANDIX- Largest textile Park (Integrated)

FOOD PROCESSING
 Ranked #1 in Aquaculture, Eggs, Fruits
 Commodity-based Food parks Spices Park at Guntur, Krishna Mega Food park, Godavari Aqua Food Park



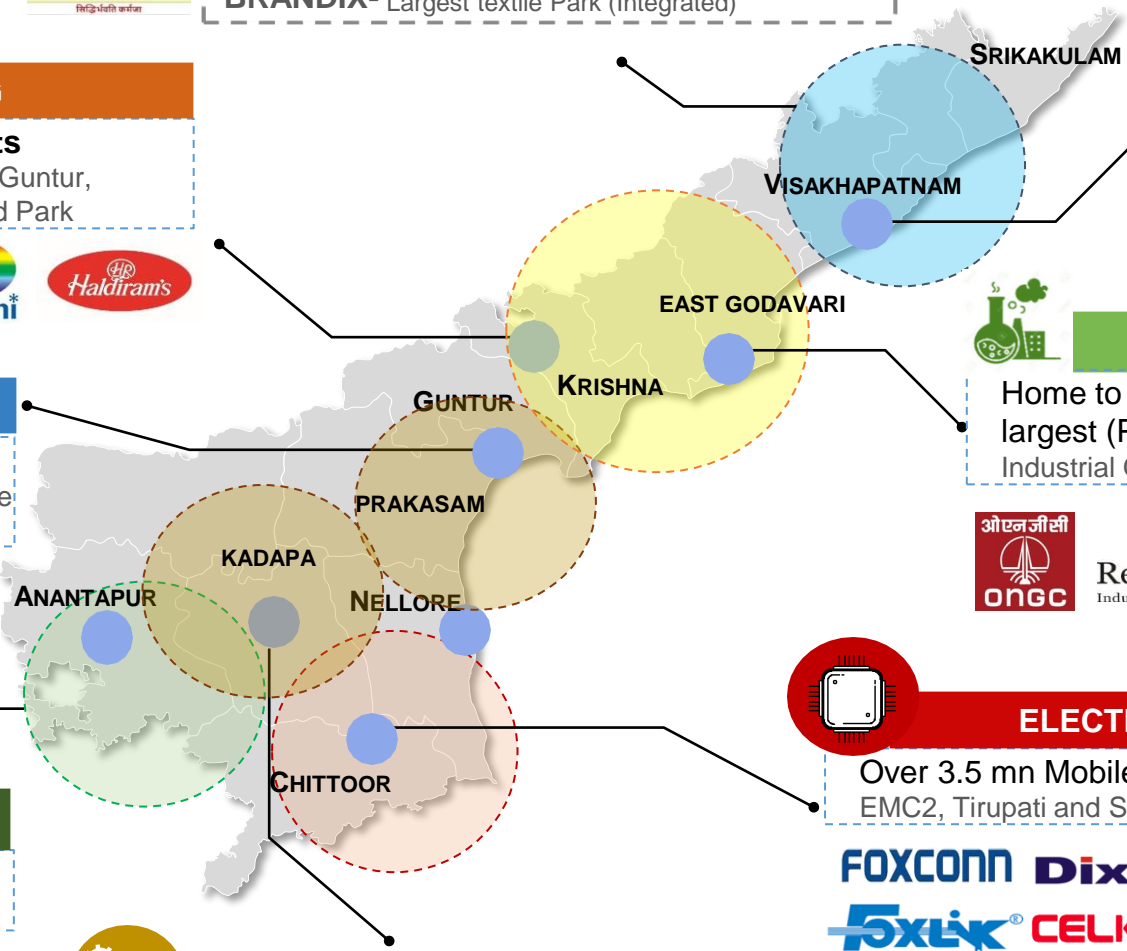
TEXTILES & GARMENTS
 Largest producer of Cotton, Silk, Jute
 Powerlooms, Spinning, Weaving & Ready made Garments, Guntur Textiles Park



AUTO & EV, COMPONENTS
 Auto and auto components ecosystem supporting EV and battery manufacturing



MINERAL-BASED CAPITAL GOODS
 Mineral-rich base driving engineering machinery, construction and mineral industries



PHARMA AND LIFESCIENCES
 Home to 250+ units, 16% of India output
 JN Pharma City, APSEZ Atchutapuram, APSEZ Srikakulam



CHEMICALS AND PETROCHEMICALS
 Home to maximum oil and gas reserve (1,130 MMTPA) and largest (PCPIR) – Vendor base of Plastics, Specialty Chemicals, Industrial Gases, Agro-chemicals and Fertilisers

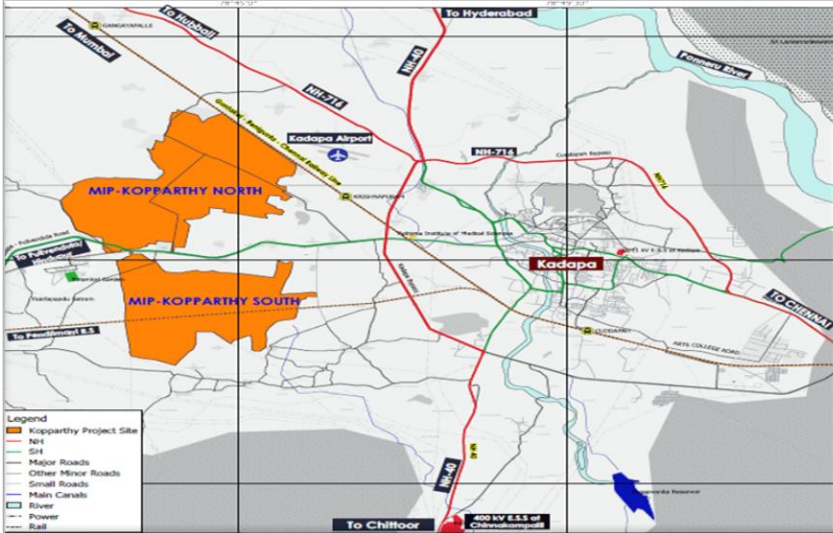


ELECTRONICS MANUFACTURING CLUSTERS
 Over 3.5 mn Mobile Phones produced a month at EMC1, Renigunta, EMC2, Tirupati and Sri City; Consumer Electronics, Mobile Manufacturing, etc

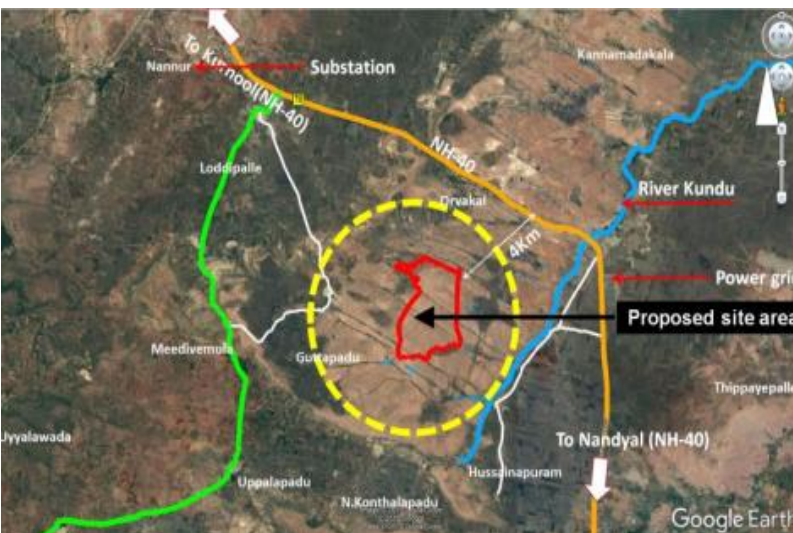


Other Industrial Corridors – Ready Built Factories and Existing Infrastructure

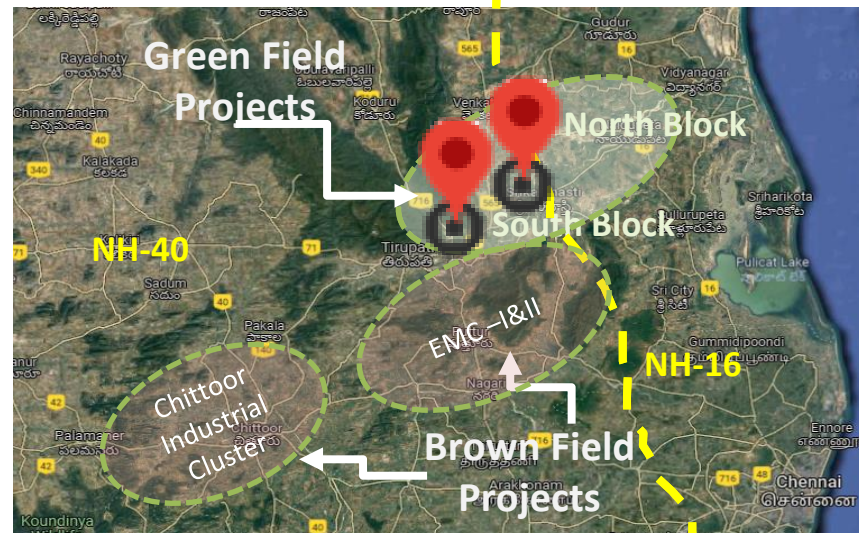
VCIC – YSR Kopparthi Node



HBIC – Oravakal Node



VCIC – Srikalahasti Chittoor Node



YSR EMC



Vast land (9,300 Acs) abutting NH-40



EMC 1



EMC 2

RBF Sheds



AP Industrial Development Policy 2020-23 and Skill Development

AP Industrial Development Policy 2020-23



Stamp Duty

- 100% reimbursement on purchase/lease of land or shed or buildings



Land Allotment

- 25% rebate on land conversion charges



Power Cost

- 24X7 Power supply
- Reimbursement @ Rs. 1.00 per unit for 5 years



Investment Subsidy

- 15% of fixed capital investment up to Rs. 20 Lakhs



Interest Subsidy

- 3% on term loan for 5 years



Net SGST

- Employment linked incentives
- Reimbursement of up to 100% for 5 years

Skill Development Program

25 Skill Colleges are proposed across Andhra Pradesh, one each in **25** Parliamentary Constituencies

Capex per Skill College (Cr)

Rs. 20 Cr

Total Capex for 25 Skill College (Cr)

Rs. 500 Cr



Target Beneficiaries

- Graduates
- Diploma, ITI
- Unemployed, dropouts, etc

In demand skill training

'NSQF' Level 4,5,6

- Government scheme-based courses
- Other courses

Capacity per College

1920
residential 480 p.a



INDUSTRIAL PARTNER

- Institute Management
- Committee Members
- Support in labs
- On the job training
- Joint certification

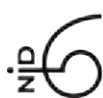
OPERATIONAL PARTNER

- Implementation Partners
- Mobilize students
- Train and Assess students
- Place students
- Other revenue activities

KNOWLEDGE PARTNER

- Eminent Industries/Academic Institutions
- Course & Curriculum
- Providing visiting faculty
- Joint Certification

Institutes of Excellence



राष्ट्रीय डिजाइन संस्थान
National Institute of Design
ఆంధ్రప్రదేశ్ • ఆంధ్ర ప్రదేశ్ • Andhra Pradesh

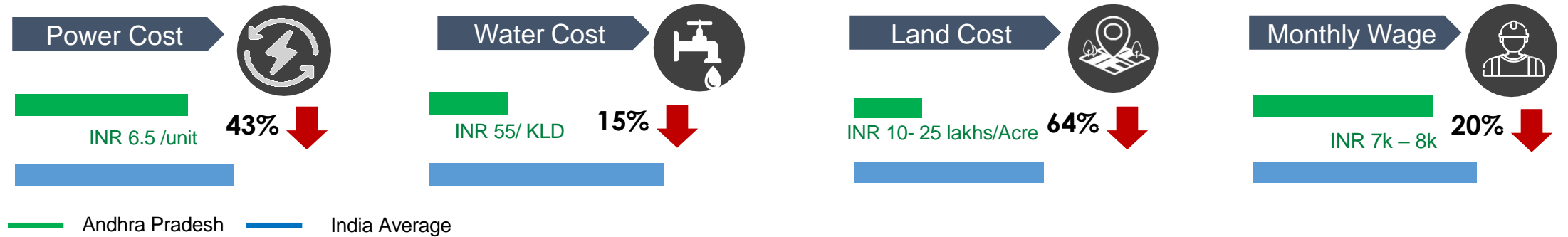
To summarize :: Why Andhra Pradesh

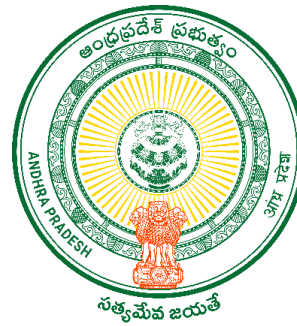
With a stable government, AP offers a 360 degree advantage across the key decision-drivers ...

<p>1</p> <p>SEAMLESS GOVERNANCE</p>	<ul style="list-style-type: none"> Ranked No #1 in Ease of Doing Business with 99.03% SLA compliance Average days for all approvals - 21 days 	<p>2</p> <p>AP INDUSTRIAL DEVELOPMENT POLICY 2020-23</p>	<ul style="list-style-type: none"> Conducive for MSMEs and upfront low cost with 'Lease-cum-Buy' Model
<p>3</p> <p>VENDOR BASE & SUPPLY-CHAIN LINKAGES</p>	<ul style="list-style-type: none"> Proximity to Feedstock and Supply Chain for downstream markets (Specialty Chemicals/ Petrochem, etc) within the park 	<p>4</p> <p>PROXIMITY TO DEMAND MARKETS</p>	<ul style="list-style-type: none"> Proximity to mega cities of TN, Karnataka and Telangana from potential locations Strategically located with the longest coast line (972 kms), gateway to the East
<p>5</p> <p>PROXIMITY TO SKILL/ LABOUR</p>	<ul style="list-style-type: none"> Abundant skill availability (50,000+ avg) within 20-25 kms of proposed site, reducing Housing and Transportation costs 	<p>6</p> <p>SKILL DEVELOPMENT PROGRAM</p>	<ul style="list-style-type: none"> Partnership with leading institutes and APSSDC for basic industrial skill development program

7

20-50% Savings in Utility Costs





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We Welcome you to Partner in Andhra Pradesh's Industrial Growth Story