



# Chemicals and Petrochemicals Ecosystem in Odisha

Nov 25, 2021



## Coverage



**ODISHA**  
NEW OPPORTUNITIES

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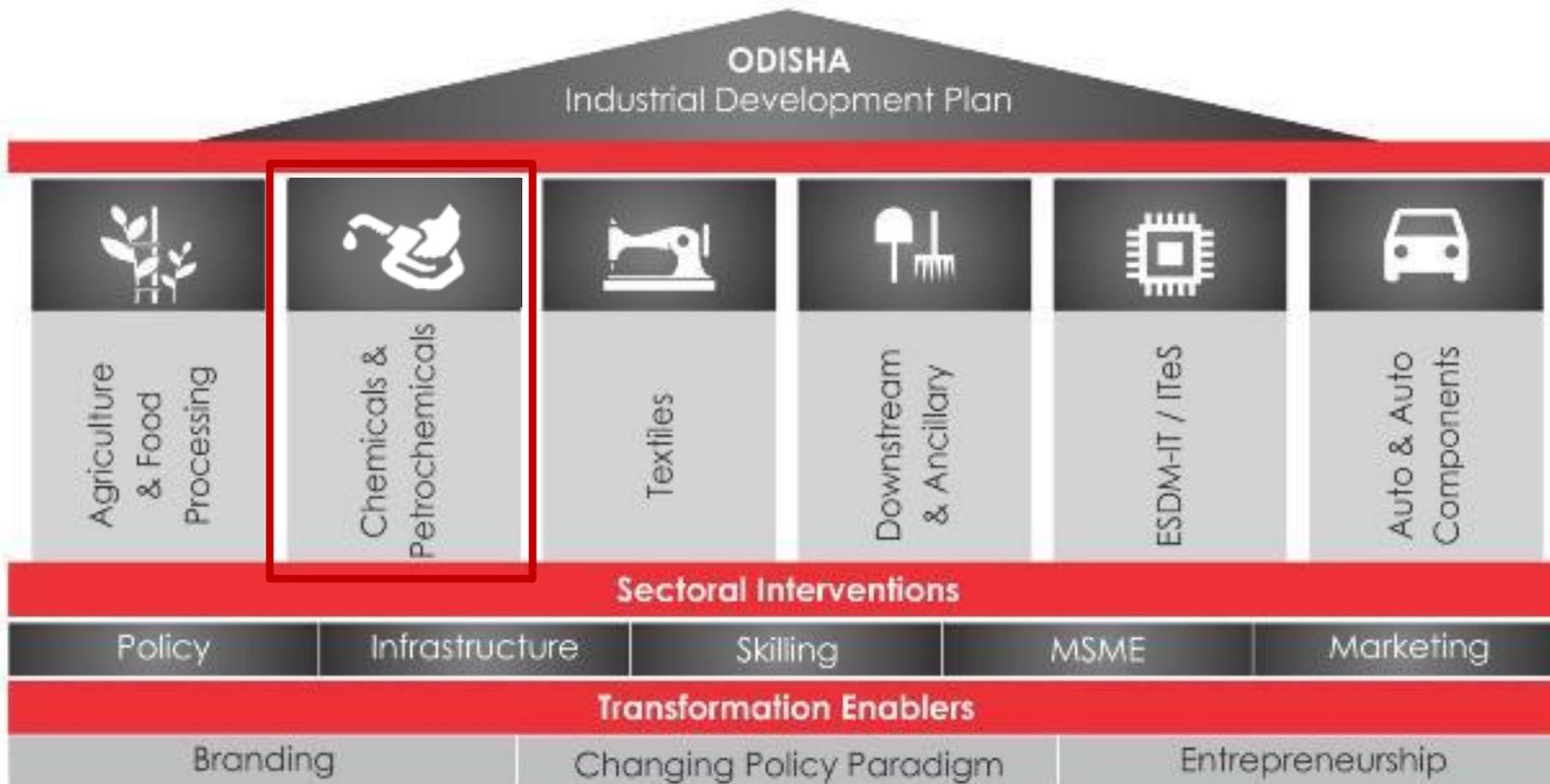


## Focus Sectors of Odisha



*“State’s Vision is to attract **Rs. 2.5 lakh crore** of new investments in 6 identified focus sectors and create **3 million** job opportunities by **2025**”*

*- Odisha Industrial Development Plan: Vision 2025*



**Chemicals & Petrochemicals is classified as a focus sector of the state and is eligible for special incentives as per the Odisha Industrial Policy Resolution, 2015.**

# Chemicals and Petrochemicals Opportunities in Odisha



## Odisha's Unique Value Proposition:

- **1 out of 4 PCPIRs in India** - Home to Indian Oil Corporation's largest refinery complex
- Long coastline with 3 major ports for easy import and export

**“Rapidly becoming the chemicals and petrochemicals hub of East India”**

## Petroleum, Chemicals and Petrochemicals Investment Region (PCPIR), Paradeep



**Development Plan  
~284 sq km**

**Anchored by  
15 MMTPA IOCL**

### Committed feedstock of:

- Polypropylene
- MEG, Paraxylene-PTA
- Ethylene, Propylene
- HDPE, LDPE, LLDPE
- EVA, Butadiene
- Benzene, Ammonia
- Sulphur

### Salient Features

- Presence of Plastics Product Evaluation Centre (PPEC) by CIPET, a prominent R&D institution of India
- Self-contained ecosystem covering entire value chain of chemicals and petrochemicals
- Logistics hub with common warehousing unit Integrated along with Packaging Unit

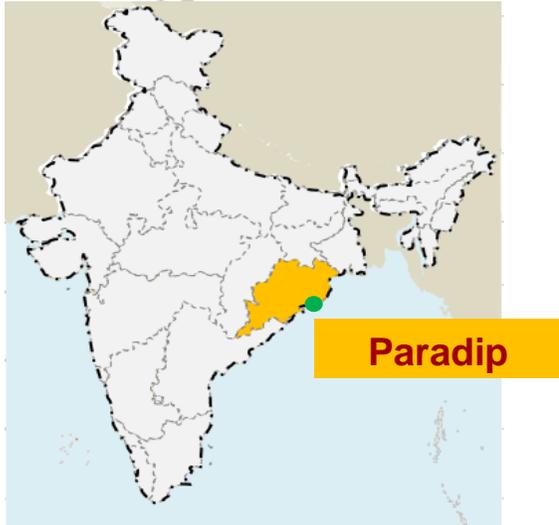
**Located near  
Paradip port, with railway siding**

**Bhubaneswar International  
Airport: 120 km**

**Connected through NH 53**



# PCPIR, the emerging petrochemical Hub of the east



- ❑ Processing Area: **113 sq km**
- ❑ Anchor Tenant: **IOCL**

### IOCL- Project

- ❑ 15 MMTPA Refinery plant commissioned in Feb 2016 – Expansion to 25 MMTPA
- ❑ ~4 MMTPA Dual Feed Naphtha cracker
- ❑ Feedstock available for the downstream units including Paradip Plastic Park

### Paradip Plastic Park

- ❑ Plug and Play Model
- ❑ Plastics Product Evaluation Centre (PPEC) by CIPET
- ❑ Feedstock made available from the IOCL Refinery cum Petrochemical Complex

## Petrochemical Feed stocks at Paradip

### Polypropylene

- **680 KTA Polypropylene** plant with an investment of 437 million USD

### Mono Ethylene Glycol

- **350 KTA MEG Plant** with an investment of 550 million USD
- Intermediate for Polyester chips, fibers, PET bottle, PET chips, polyester yarn etc. To commission operations in Aug 2022.

## Petrochemical Feed stocks- Under Construction

### Paraxylene-PTA Complex

- **1200 KTA Paraxylene-PTA complex.** To be commissioned by Feb 2024
- Feedstock for PET Chips, packaging film, yarn and textile

### Petcoke Gasification

- **770 KTA Pet-coke** based synthetic ethanol project being considered by IOCL.

## Paradeep Port: Premier Maritime Gateway of East India



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### Paradip Port, deep draft, all weather port

- 120 km from the State Capital Bhubaneswar
- **Largest major port** in Eastern India.
- Largest bulk cargo port in India
- Current Capacity: **277 MMTPA**
- 4 berths for handling **liquid cargo**
- **Dedicated pipeline corridor**
- Currently, the port handles Cape Size vessels of LOA 300 mtrs, Beam 48 mtrs, DWT of 1,18,000 with a maximum draft of 14.5 m



### Odisha's Gateway to the ASEAN Region

#### Existing Infrastructure:

- Mechanised Coal Handling Plant
- Iron Ore Handling Plant
- General Cargo Berth
- Oil Jetty
- Captive Berths
- RO-RO Jetty
- Container Handling
- Cargo Handling Equipments
- Port Railways
- Storage

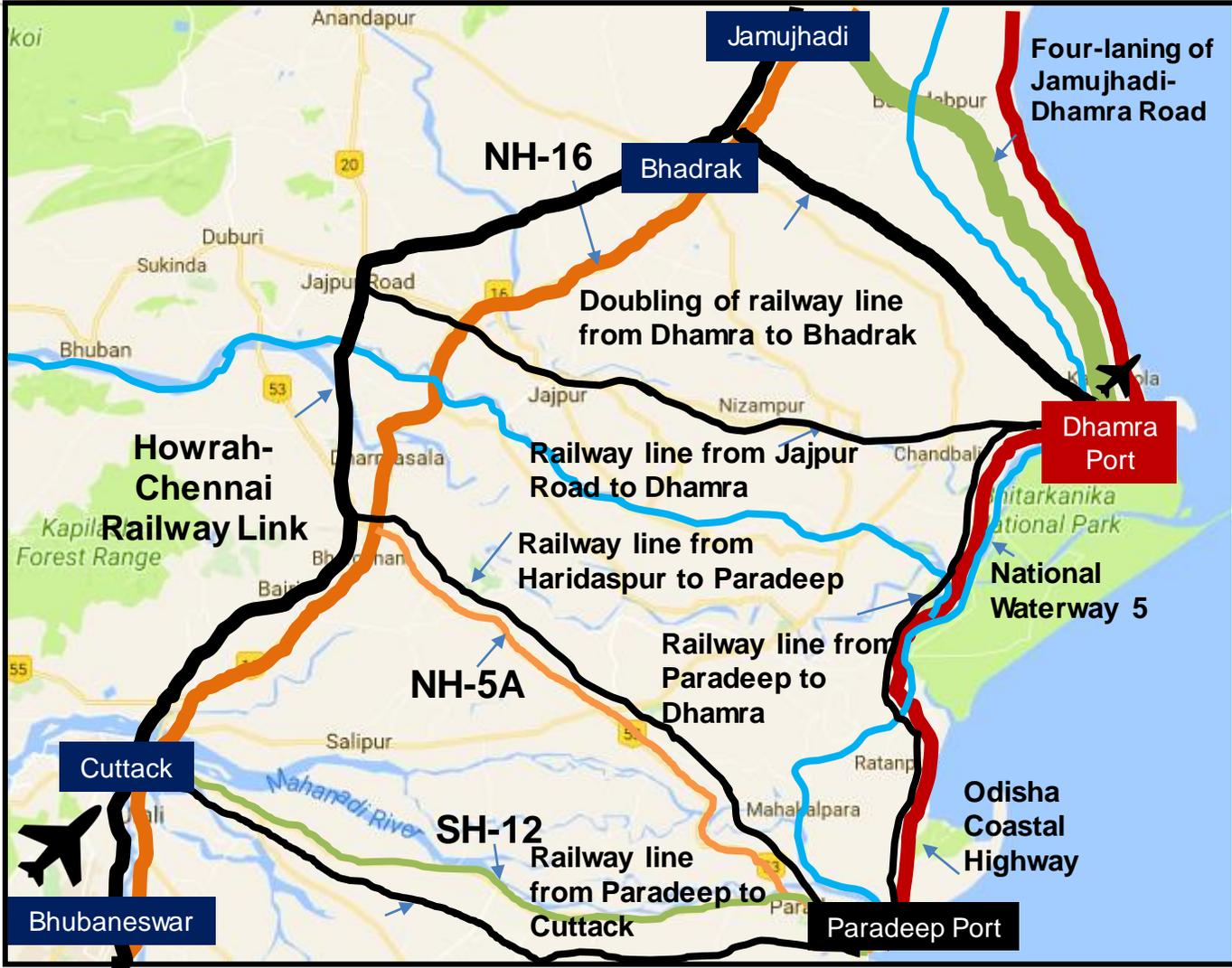
#### Expansion plans :

- Capacity Expansion: **325 MMT**
- Vessel Size: **2,00,000 DWT**
- Draft: **22 m**

# Proposed Infrastructure Development at Paradip-Dhamra



## Hinterland connectivity enhancements



### ROAD

- Bhubaneswar- Paradeep Greenfield Road
- 379 kms long Coastal Highway under Bharatmala Pariyojna (Tangi, Odisha to Digha, West Bengal) passing through Paradeep
- Four-laning of Jamujhadi-Dhamra road

### RAIL

- Railway line from Paradeep to Dhamra
- Doubling of railway line from Dhamra to Bhadrak

### AIR

- Dhamra airport. Greenfield Airport at Paradeep.

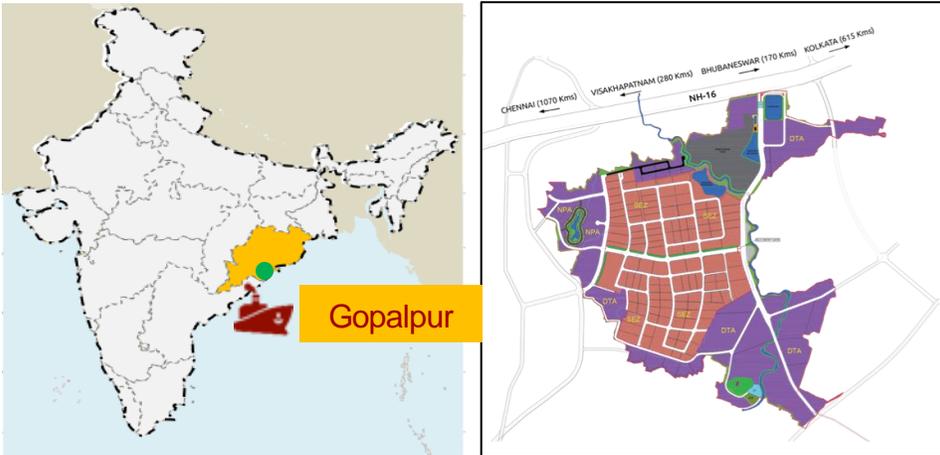
### INTRA-REGIONAL CONNECTIVITY ENHANCEMENTS

- Railway line from Paradeep to Dhamra
- National Waterway 5 with IW terminal near Paradeep Port
- Odisha Coastal Highway

# Infrastructure Development at Gopalpur Industrial Area

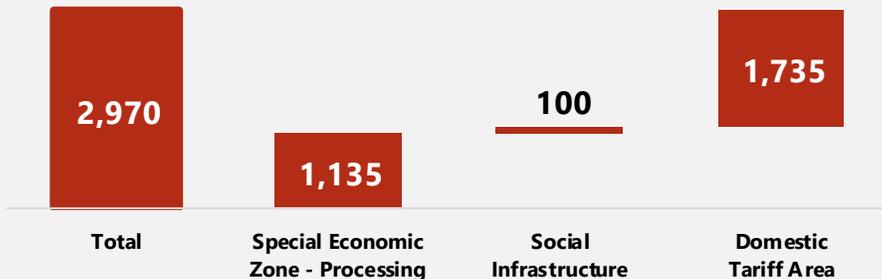


## TATA STEEL SPECIAL ECONOMIC ZONE



— Project Boundry     Ferrochrome Plant     Special Economic Zone (SEZ)  
- - - SEZ Boundry     Domestic Tariff Area (DTA)

### Land Availability (in Acres)



### Infrastructure Availability:

#### Road

- Total road network of 45kms consisting of 60m wide trunk road, 45m arterial road and 35m/25m sub-arterial road.
- Plot sizes varying from 2 acres to 200 acres.
- Provision for utilities, landscaping, cycle track etc.

#### Water

- 10 MLD from Perennial water source.
- Additional 15 MLD Desalination Plant is proposed.

#### Security

- Surrounded by a RCC boundary wall of 4 meters height and 24 Kms
- 24\*7 security

#### Power

- Incoming power supply at 220 KV
- Stepped down power supply at 33 KV at multiple E houses within industrial park.

#### Gas Infrastructure

- GAIL Gas gasification unit within industrial park
- Proposed GAIL Gas Pipeline from Srikakulam-Angul will pass near industrial park
- Provision of LNG Terminal at Gopalpur Port with capacity of 4 MMT



## Port-led Development at Dhamra



- ❑ **Deep draft port** which can accommodate **super cape-size vessels**.
- ❑ **All-weather, multi-user, multi-cargo port** going to be the largest and most efficient port in East India.
- ❑ Proximity to the mineral belt of Orissa, Jharkhand and West Bengal, offers **deepened hinterland connectivity and operational efficiency**.

### Cargo Potential at Dhamra:

#### Exports:

- ❖ Thermal Coal : 20 MMT
- ❖ Iron-ore & pellets : 15 MMT
- ❖ Coastal shipping
- ❖ Transshipment hub

#### Imports:

- ❖ Coking Coal : 40 MMT
- ❖ Steam Coal : 15 MMT
- ❖ Limestone : 8 MMT



### Upcoming Industry clusters

- ❖ Steel plants : 90 MTPA
- ❖ Power plants
- ❖ Aluminum plants
- ❖ Sectoral Industrial clusters

### Mega Textile Park

Establishment of **1,000 acres textile park near Dhamra port**

<b>Total Area</b> 1,000 acres	<b>Industrial Plots</b> 450
<b>Investment Potential</b> INR 6,500 crore	<b>Employment Potential</b> 20,000

### Storage Infrastructure

**The storage infrastructure consists of the following storage areas:**

- **Coal:** 1,13,024 Sq. Mtr. (Mechanized)
- **Coal/Limestone:** 1,84,083 Sq. Mtr. (Semi-Mechanized)
- **Iron ore/Thermal Coal:** 75,606 Sq. Mtr. (Mechanized)
- **Covered Warehousing:** 33,750 Sq. Mtr.
- **Storage for Container/Steel:** 8,000 Sq. Mtr.

### Rail Connectivity

- The **'merry-go-round' railway system** for handling of rakes helps to achieve greater efficiencies and better turnaround times for rakes.
- The **rail cargo infrastructure** at Dhamra port consists of Rake Loading Facility - 2 Rapid Loading Silos with 2000 TPH each and 2 Rapid Loading Silos with 4000 TPH each



## Incentives as per Odisha's Industrial Policy



- **Reimbursement of 100% of net SGST** paid for a period of 7 years, limited to 200% of cost of plant & machinery
- **100% stamp duty exemption** for transfer of land from State Infrastructure Development Corporation to Industrial units
- **Depending on investment and employment generated:**
  - Rs. 0.25 to 1.25 per unit reimbursement of power tariff for 5 years
  - Training subsidy of Rs. 1,750 to 4,000 per person newly trained or undergoing skill upgradation for 3 years
- **Exemption from payment of electricity duty** up to a contract demand of 5 MVA or with captive power plants with non-conventional sources and bio-fuel for a period of 5 years
- **Interest Subsidy @5% per annum** on term loan for a period of 5 years

### Policy Focus

#### Priority Sectors

Leveraging competitive advantages of Odisha

**Infrastructure-led**  
industrial growth

**Industry-ready**  
skilled manpower

**Project Facilitation**  
Concept to  
Commissioning



# THANK YOU



Government of Odisha

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