



**ODISHA**  
NEW OPPORTUNITIES

A large, faint background graphic on the left side of the slide. It consists of several interlocking gears of different sizes, some with dashed arrows indicating rotation. Overlaid on the gears are various circuit-like lines, including solid lines with dots at their ends and dashed lines with arrowheads, suggesting a connection between mechanical and electronic systems.

## **Investment Opportunities in Chemicals and Petrochemicals Sector in Odisha**



## Coverage



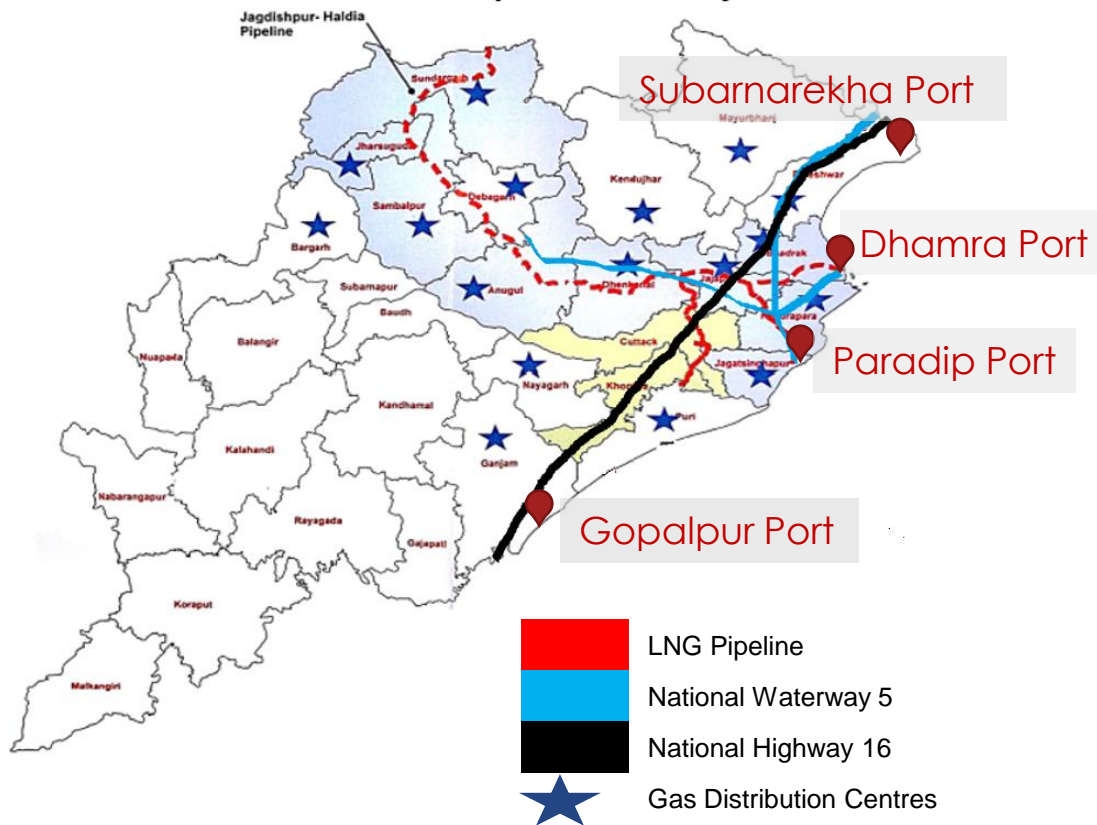
**ODISHA**  
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- Odisha: Land of New Opportunities
- Odisha as an investment destination
- Chemicals and Petrochemicals Opportunities in Odisha
- Paradeep Port: Premier Maritime Gateway of India
- Proposed Location for the Project
- Connectivity to Paradeep

## Odisha as an investment destination – 1/2



### Infrastructure- led industrial development



**#1 State in India** in terms of attracting investments during Apr -Sep 2019 as per Centre for Monitoring Indian Economy (CMIE)



**Services and Industries** are the **two largest sectors** contributing to the State GDP with **40.5%** and **39.06%** respectively



**11 % of India's water resources** and **power surplus** with **over 17,600 MW** of production



**10,000 km of Highway Network** along with a **mesh of Railways** providing **connectivity to the Indian hinterland**



**Largest producer of Minerals, Aluminium, Steel and Stainless Steel** in India

All ports can be reached in 6 hours from the International Airport



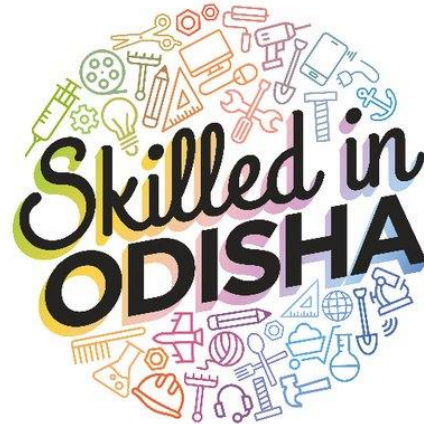
## Odisha as an Investment Destination – 2/2



### Dedicated authority to facilitate skill development for industries

- **More than 170,000** graduates every year from **950+** training institutions in Odisha
- Globally recognized **Institutes of Higher Learning & Research** including **CIPET** and **ICT** two of the premier research institutes in the **Chemicals and Petrochemicals sector**
- Bhubaneswar emerging as **knowledge hub in India**
- Development of first-of-its kind **World Skill Centre** at Bhubaneswar

Vision of OSDA:  
Odisha's Best, World's Next



### A **cost-effective** and **hassle-free destination** for industrial investments

Odisha has one of the lowest\* cost of doing business in India, with:

1. Lowest industrial electricity tariffs
2. Low industrial land cost
3. Low water tariffs
4. Competitive skilled labour wage rate

\*As per a report by Asian Development Bank (ADB)



- First-of-its-kind single window system which supports industries throughout their investment lifecycle
- Recognised as a best practice by Government of India

## Chemicals and Petrochemicals Opportunities in Odisha



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### 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

### Key Players



## Petroleum, Chemicals and Petrochemicals Investment Region, Paradeep



### Snapshot Of Investment Region:

- Development plan over 284 sq km
- Anchored by 15 MMTPA IOCL refinery with committed feedstock of:
  - Polypropylene
  - Paraxylene-PTA
  - Mono Ethylene Glycol
  - Petcoke
- Situated adjacent to Paradip port and with railway siding
- Biju Patnaik International Airport: 120 km
- Connected through NH 53

### Salient Features

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

## Paradeep Port: Premier Maritime Gateway of India



### Paradeep Port:

- ❑ Deep draft, all weather port
- ❑ Largest port in the Eastern coast of India
- ❑ Current Capacity: **277 MMTPA**
- ❑ Largest bulk cargo port in India
- ❑ 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

### 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 : **325 MMT** by 2020
- ❑ Vessel Size : 2,00,000 DWT
- ❑ Draft : **22 m**

### Location:

- ❑ 120 km from the State Capital Bhubaneswar
- ❑ 50 Nm south of Dhamra port





# Current Connectivity to Paradeep



Connectivity spine: NH-16 and Howrah-Chennai Rail Link

### Dhamra

NH-16 via Jamujhadi-Dhamra road (60 km state highway)

Howrah-Chennai rail link via a single broad-gauge railway line (62 km)

### Paradeep

NH-16 via NH-5A

Cuttack via SH-12

Howrah-Chennai rail link via Cuttack-Paradip railway line

### Air connectivity

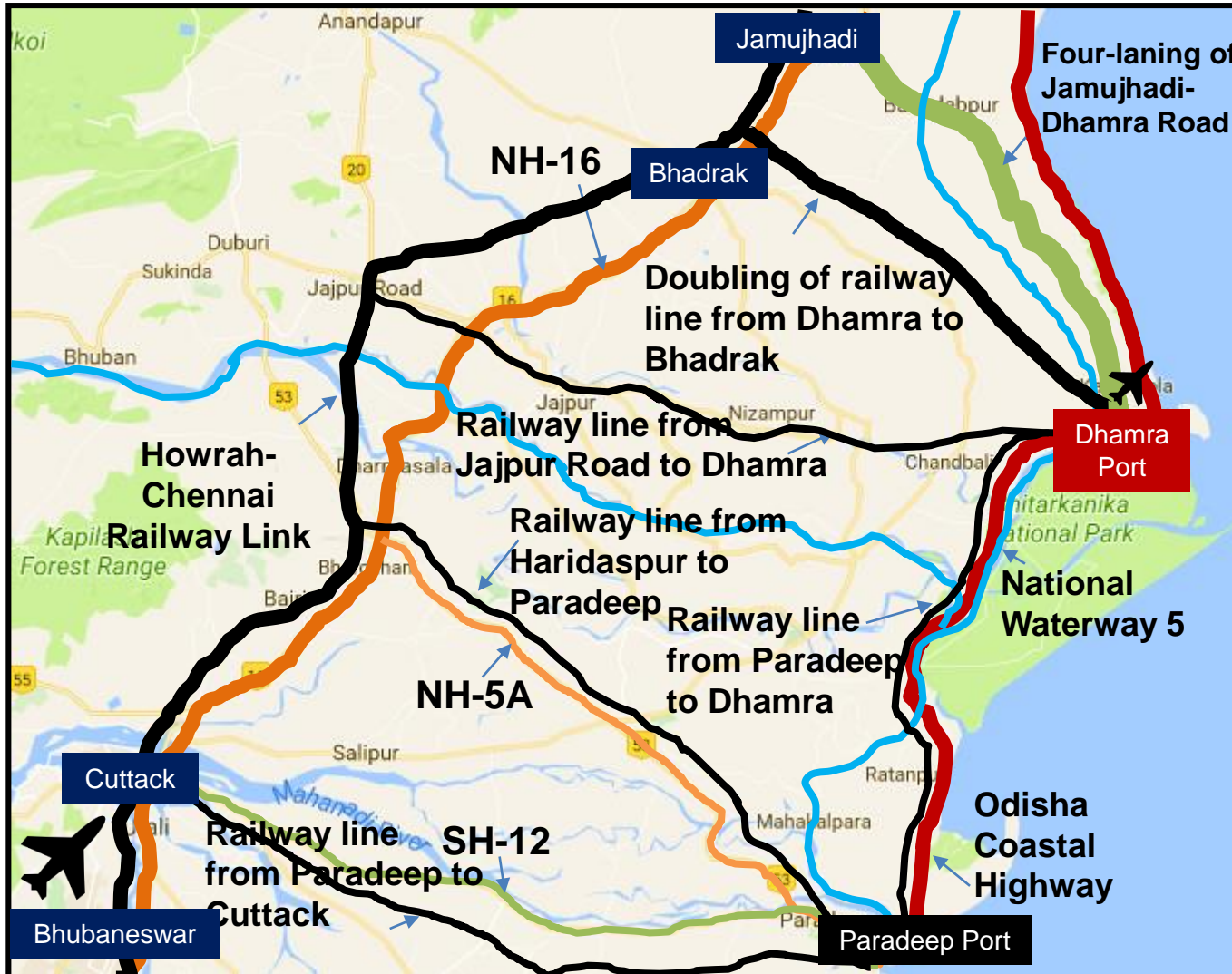
Air connectivity via Bhubaneswar



# Proposed Connectivity to Paradeep



## Hinterland connectivity enhancements under consideration



- Four-laning of Jamujhadi-Dhamra road
- Doubling of railway line from Dhamra to Bhadrak
- Railway line from Jajpur Road to Dhamra
- Railway line (under construction) from Haridaspur to Paradeep

### Intra-regional connectivity enhancements proposed

- Railway line from Paradeep to Dhamra
- National Waterway 5
- Odisha Coastal Highway

### Air connectivity

- Dhamra airport





# THANK YOU



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