Mega Projects in Gujarat
Avenues for investments
## Mega Projects: Gujarat Overview

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<td><strong>Dholera SIR &amp; Airport</strong></td>
<td>India’s first Greenfield Smart City</td>
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<td><strong>Mandal Becharaji SIR</strong></td>
<td>Industrial Hub in Northwest of Ahmedabad over 102 sq. kms</td>
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<td><strong>GIFT City</strong></td>
<td>India’s first financial services centre</td>
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## Mega Projects: Avenues for investment

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<td>Dholera SIR &amp; Dholera Airport</td>
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Delhi Mumbai Industrial Corridor (DMIC)

- DMIC is India's most ambitious infrastructure programme with emphasis on expanding the manufacturing and services base and aim of creating futuristic Industrial Cities by leveraging the "High Speed - High Capacity" connectivity backbone provided by Western Dedicated Freight Corridor (DFC).
- Estimated investment in the project is USD 100 billion.
- Eight manufacturing cities are being developed in PHASE I of which DHOLERA in GUJARAT is one of them

### Key information

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<td>$2.5 billion</td>
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<td></td>
<td>(INR 16,059 Crore)</td>
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Source: www.dmicdc.com
Dedicated Freight Corridor (DFC)

- ‘Dedicated Freight Corridors’ are planned to make it cheaper, faster, and more reliable to move goods between industrial heartlands in the North and ports on the Eastern and Western coasts of India.
- The cost for these Dedicated Freight Corridors along the Eastern and Western routes, spanning 3,360 route km, has been estimated at USD 12 billion.

The Western Dedicated Freight Corridor covers a distance of 1504 km of double line electric (2 X 25 KV) track, of which 565 kms. will pass through Ahmedabad, Vadodara, Surat, Ankleshwar, Bharuch, Anand, and Palanpur in Gujarat

Investment Opportunities:
- Infrastructure development
- Logistic Parks
- Industrial Parks
- Food parks and Cold Chains
- Warehouses
Dholera Special Investment Region

DSIR will be the biggest beneficiary of DMIC and DFC

Declared as National Investment Manufacturing Zone (NIMZ)

DSIR Advantages:
• Large & contiguous land parcels for industrial development
• Long term growth potential
• Fully serviced plots – Plug & Play
• Smart & Sustainable Social infrastructure

Investment Opportunities in sectors:
• Defence & Aerospace
• Heavy Engineering
• Automobiles & Auto Ancillary
• Electronics, Hi-tech Technologies
• Agro & Food Processing
Dholera SIR is within the proximity of Delhi-Mumbai Industrial Corridor

High Impact industrial area within 150 km on each side of the Freight Corridor

GoI is developing DMIC as a global manufacturing and investment destination utilizing the, high-capacity western Dedicated Railway Freight Corridor (DFC) as the backbone

36% of the 1500 km DFC is through Gujarat (565 km) with 6 nodes including Ahmedabad - Dholera node

Large scale infrastructure projects expected at an approximate investment of USD 90 billion

Around 60% of the total investments likely to be in Gujarat
Dholera Special Investment Region

Dholera SIR (TP1 to TP6)
422 Sq Km

DSIR Phase I (TP1 & TP2)
153 Sq Km

Activation Area
22.54 Sq Km

<table>
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<th>Determinants</th>
<th>Unit</th>
</tr>
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<tr>
<td>Total notified area</td>
<td>920 sq. km.</td>
</tr>
<tr>
<td>TP area (Developable)</td>
<td>422 sq. km.</td>
</tr>
<tr>
<td>Total jobs (estimated)</td>
<td>827,000</td>
</tr>
<tr>
<td>Supported population</td>
<td>2.5 million</td>
</tr>
</tbody>
</table>
Landmark Development: Airport, Smart City and Solar Plant

- India’s **largest Greenfield Industrial Smart City** with an area of **422 sq km**
- **First ‘Platinum’ rated** green city by IGBC
- Construction work for roads, services and utilities costing INR 2700 cr is in progress; completion by 2019
- Total area identified for Airport development is 1426 hectares. The airport is slated to have two runways capable of handling wide-bodied long-haul aircrafts such as the A380.
- Land parcels ready for allotment through Electronic Land allotment system (ELMS)

1. **Dholera International airport to be developed on a Public Private Partnership ("PPP") basis; and to develop the surrounding regions in terms of civic infrastructure**

2. **Dholera SIR to be developed as a smart city operational in 2019; Potential for collaboration in co-development of smart housing, transport and utilities**

3. **Worlds largest Solar Power Plant of 5000 MW to be developed on 11,000 hectares with investment of > US$ 3.5 billion**
Mandal Becharaji Special Investment Region (MBSIR)

MBSIR Industrial hub being developed in north-west of Ahmedabad spread over an area of 102 sq. kms.

A Japanese Industrial Zone is being developed at MBSIR which will be home to major auto companies like Suzuki Motor Corp., Honda Motorcycles and Scooter India Pvt. Ltd, and Toyota Tsusho India

<table>
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<tr>
<th>Airport</th>
<th>Ahmedabad (89 km)</th>
</tr>
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<tbody>
<tr>
<td>Nearest Urban Areas</td>
<td>Ahmedabad, Kadi, Surendranagar, Mehsana</td>
</tr>
<tr>
<td>Nearby Ports</td>
<td>Mundra (300 km), Kandla (240 km)</td>
</tr>
</tbody>
</table>
Japanese Industrial Estate @ GIDC Mandal

“Gujarat’s first Country specific industrial estate with an area of 123 hectares delineated for Japanese companies”

**Location**
- Mandal- Ahmedabad District

**Area**
- 123 hectares

**Focus Sector**
- Engineering, Automobiles and ancillary

**International & Domestic Airport**
- Ahmedabad
- Nearest Major Port
- Kandla
- Nearest Railway Station
- Viramgam
- 90 KM/SH
- 200-300 KM
- 30 KM

**Nearest Major City**
- Ahmedabad
- 90 KM

**Nearest Auto Component Hub**
- Sanand
- 70-80 KM

**Government of Gujarat has proposed rail network as last mile connectivity to the region**

**Presence of Japanese Companies in the Estate**

<table>
<thead>
<tr>
<th>Name of the Company</th>
<th>Area in Sq m</th>
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<tbody>
<tr>
<td>Technotrends Autopark Pvt. Ltd</td>
<td>2,54,548</td>
<td>Murakami Corporation</td>
<td>30,953</td>
</tr>
<tr>
<td>MA Extrusion India</td>
<td>41,614</td>
<td>Topre Corporation</td>
<td>1,02,730</td>
</tr>
<tr>
<td>Roki Minda Company</td>
<td>31,614</td>
<td>Sanko Gusai Technology (I) Pvt. Ltd</td>
<td>28,998</td>
</tr>
<tr>
<td>TS Tech (Mandal Pvt. Ltd)</td>
<td>20,000</td>
<td>Munjal Kiriu India Pvt. Ltd</td>
<td>38,021</td>
</tr>
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Petroleum, Chemicals and Petrochemicals Investment Region (PCPIR)

- Special delineated investment region of 453 sq. km. planned for the manufacturing of petroleum products, chemicals and petrochemicals
- World class 1.1 MMTPA multi-feed cracker - investment of $4.6 Billion (INR 30,000 Crore)
- Presence across the entire chemical value chain which enables cost competitive production

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Source: Gujarat Industrial Development Corporation
# GIDC Saykha Chemical Zone

Saykha Industrial Estate, developed by Gujarat Industrial Development Corporation is part of Gujarat PCPIR, and lies within the impact area of Delhi Mumbai Industrial Corporation.

### Location:
- Within PCPIR - Bharuch District (Non-SEZ area)

### Total Area:
- 1,01,339 m²
- Land Price: $25/m²

### Closest ports:
- Dahej – within PCPIR
- Hazira – 135 kms

### Railway Station:
- Bharuch -12 kms

### Electricity cost, excluding taxes ($/KWh):
- Approx. 0.107

### Water availability:
- 50 MGD

### Water cost, excluding taxes ($/m³):
- Approx. 0.445

### LNG available in region (SCM)/day:
- 31.92 MMTPA

### LNG cost, excluding taxes ($/SCM):
- Approx. 0.385

**KWh**: Kilowatt hour; **MGD**: Million Gallons per Day; **SCM**: Standard Cubic Meter; **GIDC**
Saykha industrial estate plan

Source: Gujarat Industrial Development Corporation
Gujarat International Finance Technology (GIFT) City

GIFT is conceptualized as a multi-services SEZ with India’s 1st International Financial Services Centre (IFSC)

Foreign firms can raise capital in foreign currency by issuing and listing their shares on stock exchanges within the IFSC

It is estimated that GIFT would provide 500,000 direct and an equal number of indirect jobs

Walk to work culture: Offices can be set up at cost effective rate with locational advantage and modern infrastructure

Firms can undertake offshore transaction in the field of Banking, Insurance & Capital Markets, IT & ITeS /BPO Services for financial services

Some of the major investors in GIFT city are Oracle, World Trade Centre, State Bank of India, BSE Brokers Forum, LIC, Tata Communications, New India Assurance, iPlex India Pvt. Ltd., Prestige Group, Sobha Ltd., Sterling etc.
Based on the cooperation between the Governments of Japan and India, National High Speed Rail Corporation Limited (NHSRCL) is implementing the high speed train corridor project between Ahmedabad and Mumbai.

508 km

Total length of the rail corridor

US $ 9.7 billion

Estimated cost of implementation of the project

Investment Opportunities

Manufacturing of railway tracks, locomotives, coaches, parts / materials, development of IT systems, construction, and civil works

Source: National High Speed Rail Corporation Limited; 1 US $ = INR 65
Greenfield Port Development

Ports commissioned to be revived in Gujarat

Vansi Borsi Port

Originally planned to handle chemical, petroleum and oil cargo due to proximity to respective production clusters although developers can additionally focus on setting up container terminal facility

Mithivirdi Port

Originally planned to be a steel port due to proximity to Alang shipbreaking yard however a developer can look to set up LNG/PNG terminal at Mithivirdi port in the future

The proposed multi-purpose, all-weather ports will have direct berthing facilities and draughts of 13-15 mts.

- Development cost of Vansi Borsi Port
  US$ 615 million (INR 4,000 Crore)

- Development cost of Mithivirdi Port
  US$ 385 million (INR 2,500 Crore)

Note: 1 US $ = INR 65
Coastal Employment Zones (CEZs)

Government of India is developing three coastal economic zones in Gujarat and has identified six sites in the state in the first phase under the Sagarmala scheme.

- Kandla: Petrochemicals
- Mundra: Cement
- Pipavav: Furniture
- Sikka: Apparel
- Dahej: Automotive
- Hazira: Marine

These CEZs are aimed at promoting development of port-proximate industrial clusters, and will encourage port-led development and lead to reduction of logistics cost and time for movement enhancing the global competitiveness of Indian manufacturing sector.
Offshore Wind Farm Project

First Offshore Wind Project of India (FOWPI) is a project supported by the Ministry of New and Renewable Energy (MNRE) and National Institute of Wind Energy (NIWE) and funded by European Union (EU) with the aim to strengthen India’s offshore wind energy sector.

The first offshore LiDAR has been installed in Gulf of Khambhat in Gujarat for measurement of wind resource.

NIWE has floated global ‘Expression of Interest’ (EoI) for which more than 30 companies have shown interest.

India’s first off-shore wind farm project is coming up on a sea bed area of 70 sq. km. with a capacity of 1 GW at Pipavav near the Gulf of Khambhat, approximately 25km off the shore of Gujarat.

Business Opportunities

- Manufacturing of wind turbines and components
- Construction of foundations
- Laying of transmission networks
- Installation, Operation & Maintenance
- Shipping & Logistics
- Port Operations
Thank you