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West Bengal
Emerging growth engine of India

State capital
Kolkata (One of the 4 major metropolitan cities of the country)

Spoken languages
Bengali, Hindi, English and Nepali

Literacy rate
77.1%

4th largest economy in India, with a population of 91.3 million
GSDP at current prices
US$137 billion (2015-16)
Growth Rate
GVA 12.02% for 2015-16 (AE)

Economic Powerhouse

- Connectivity: 2 Int’l airports; 2 major ports and 3 upcoming ports
- 100% villages electrified
- 3rd largest road network
- Plug-n-play Industrial Infrastructure: Numerous growth centers and industrial parks (existing and proposed) both industry specific and multiproduct
- Upcoming 6 Theme townships
- Upcoming Amritsar-Kolkata Industrial Corridor (AKIC) covering about ~2,000 KM

Rich Culture

- Birthplace of modern Indian literary and artistic thought
- Kolkata is referred to as the “culture/literary capital of India”
- Pioneer of cosmopolitan culture in the country
- Land of Mother Teresa, Rabindranath Tagore Satyajit Ray and many more

Strategic Location

- Gateway to Southeast Asia and North-East India
- Shares international frontiers with Bangladesh, Nepal and Bhutan
- Well connected with the booming hubs of Asia such as Singapore, Thailand and Malaysia
- Hinterland comprises mineral-rich states such as Chhattisgarh, Jharkhand, Orissa

Robust Physical Industrial Infrastructure

(AE-Advance Estimates)
West Bengal Has It All

- One of the 13 maritime states in India with a waterfront of 950 km
- Richly endowed with natural maritime advantages and availability of navigable and potentially navigable waterways including Bay of Bengal and NW-1, NW-15
- Strategic location on important international trade routes
- Huge Hinterland: Gateway to East and North-East, port of entry to land locked states of Central India and land locked countries Nepal and Bhutan
- Availability of large work force
- Single window clearance facility
- Initiatives of Government of West Bengal for systematic development of port based industrial parks, promoting captive industries and ancillary facilities
- Facility of incentive schemes and export promotion schemes
- Largest in India's Power distribution, quality and availability
- Country's highest bank credit flow to MSME sector of approx. US$ 15 billion in the last 5 years
- Kolkata is the first metro city with Wi-Fi connectivity on 4G
- Highest producer of vegetables in the country
- Second in Tea production after Assam. State is the land of famous Darjeeling Tea
- Second largest in terms of number of MSME enterprises (~3.7 million enterprises)
- Third largest in India in mineral production accounting for about 1/5th of total mineral production
- Third largest in terms of road coverage across the country

Ports of West Bengal

EXISTING
- Kolkata Port
- Haldia Port

UPCOMING
- Deep sea port at Tajpur
- Major deep sea port at Sagar Island
- New port with shipbuilding facility at Kulpi
Charting New Waters

Initiatives taken by the West Bengal Government

- West Bengal Maritime Act
- West Bengal Maritime Board
- Maritime Policy for the state
- Sagarmala Steering Committee for the State headed by the Hon’ble Chief Minister
**Opportunities**

**Port**
- Concessionaire for Bhor Sagar port - investment opportunities ₹ 16000 CR. (~US$ 2.3 billion) [PPP mode]
- Concessionaire for deep sea port at Tajpur ₹ 5000 CR. (~US$ 745 million)
- Development plan for other ports under progress

**Port-led industrialization**
- Clusters – Thermal Power Plant, Steel Plant, Edible Oil, Petrochemical, Cement, Leather, Food Processing, Fertilizer, Rubber
- New Refinery in Purba Medinipur
- New IOC bottling plant in North Bengal, capacity expansion in Durgapur
- LNG Network
- Solar park and offshore renewable energy projects at Sagar Island, Nayachar
- Chemical park/p plastic park at Haldia/ Rasulpur
- Allied industries - Shipbuilding, Barge manufacturing, Jetty manufacturing, Ship repair, Ship breaking, Ship recycling, Jetty repair, Offshore storage, Bunkering facilities, Drilling Platforms, Warehousing services, Container freight stations, Manufacturing of vessels and cruises for coastal/inland waterways

**Development of coastal region / coastal community development**
- Theme Cities/ Green Cities
- Preservation of biosphere of Sunderbans- Island development and removal of salinity of agricultural lands of Sunderbans
- Coastal tourism, lighthouse tourism and recreational activities
- Maritime University
- Skill Development
- Training and Self Employment of fishermen and project affected people

**Upcoming industries that require port support**
- Exploration of Deocha-Pachami Coal mine [₹ 20,000 CR. (~US$ 3 billion) investment] in PPP mode
- Iron-ore exploration in Purulia [₹ 800 CR. (~US$ 119 million) investment]
- New refinery at Haldia [₹ 20,000 CR. (~US$ 3 billion) investment]
- LNG project [₹ 3100 CR. (~US$ 461 million) investment]
- Cement industries [₹ 3350 CR. (~US$ 498 million) investment]
- Development of cities, road, tourism [₹ 4000 CR. (~US$ 595 million) investment]
- Steel, plastic, rail, logistics, transport, etc. [₹ 11445 CR. (~US$ 1.7 billion) approx. investment]

**Inland Waterways**
- Multimodal Terminal at Haldia
- Assured Draft Depth along the waterways
- Navigation lock gate at Farakka
- Loaded Carriage Transport (LCT) Jetties with RO RO vessels between Varanasi and Kolkata
- RO RO Terminals to be built at Hazarduari, Kolkata, Budge Budge and Raichak
- Gangway Pontoon Type Jetties and renovation of existing Jetties
- Vessel repair and manufacturing facility
- Cross ferry services for passengers between either sides of NW-1 at various locations from Farrakka to Haldia
- Tourism Circuit along NW-1 (Sunderban - Kolkata - Varanasi)
- IWAI Planning for building 80 Cargo Vessels for carrying goods along NW-1

**Port-led infrastructure development**
- Scope of integration with Bharat Mala, AKIC, Eastern Dedicated Freight Corridor (Ludhiana – Dankuni), Last Mile Connectivity Programme of the Indian Railways
- Extensive expansion of Rail connectivity – Shalimar, Mecheda, Dankuni and Dankuni to Kashinagar
- 8 Lane highway connectivity from Durgapur to Haldia
- 2 additional Inland Container Depots at Durgapur and Siliguri
- North South Road corridor project
- Metropolitan Transport Logistic Hub proposed at Baidyabati
- Multi-modal Transport Hub at Haldia
- Doubling of Panskura-Haldia & Rajgoda-Tamluk Completed
National Waterways in the State of West Bengal

Existing facilities of inland water transportation along NW-1:

- All weather passenger jetties on the east bank of NW-1: 36
- All weather passenger jetties on the west bank of NW-1: 35
- Wooden body Passenger Vessels Government owned: 10
- Wooden body Passenger Vessels Private owned: 100
- Steel body Passenger Vessels Government owned: 45
- Steel body Passenger Vessels Private owned: 3
- FRP body vessels, Government owned: 9
- Cargo carrying Barges of capacity 3000 MT., Government owned: 6
- Cargo carrying Barges of capacity 3000 MT., Private owned: 40
- Yachts/ Water Crafts / Luxury Cruises, Private owned: 16
- Other type of Vessels like Tug, Pusher Tug, Survey Vessels, Work Boats, Dredger etc, Government owned: 28
- Other type of Vessels like Tug, Pusher Tug, Survey Vessels, Work Boats, Dredger etc, Private owned: 124
- RO RO Vessels, Government owned: 4
- RO RO Vessels, Private owned: 2
- Passengers crossing NW-1 per year: ~220 million
- Cargo moving along NW-1 per year: ~4 million tonnes
Opportunities for investment

- More scope to carry cargo along National Waterways: From ports in Bay of Bengal to North India: NW-1 can now become the main cargo route for movement of coal, fly ash etc. leading to efficient evacuation to and from Hinterland. Investors may procure and operate, purchase etc.

- Movement of imported coal: From Bay of Bengal to NTPC Barh, Bihar, NTPC Katwa, West Bengal and to other Thermal Power Plants along NW-1.

- Enhancement of tourism potential: Luxury liner Cruises etc. from Ganga Sagar to Varanasi etc. as well as in the Indo-Bangladesh corridor through Sundarban routes eminently feasible now.

- East West movement of goods by RO-RO vessels: Between two sides of NW-1 as well as similar movement along other Waterways becoming increasingly viable connectivity option.

- Construction and development of IW Jetties through PPP mode in Kolkata on NW-1.

- Vessel and Barge Building and repairing facility for Envisaged Cargo Projection.

- Leveraging Training Expertise of Maritime Institutes for vessel crew.

- Upgrading of Indo-Bangladesh Inland Water Transit and Trade Protocol for longer time frame.

- Operation and maintenance of River Information system.

Improvements undertaken in the last 5 years along NW-1 for passenger transportation:

- Gangway Pontoon/R.C.C. Jetties newly built: 10 places
- Existing Gangway Pontoon jetties renovated: 21 locations
- Wooden Vessels newly launched: 10
- Steel Vessels newly launched: 8
- Wooden & Steel Vessels under construction: 14

Future Plan:

<table>
<thead>
<tr>
<th>Projects</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of proposed gangway pontoon type jetties with suitable pathway for river transport stations for development of passenger ferry services along NW-1</td>
<td></td>
</tr>
<tr>
<td>Proposed New Jetties:</td>
<td></td>
</tr>
<tr>
<td>a. Upstream of the Kolkata Metropolitan Area</td>
<td>20</td>
</tr>
<tr>
<td>b. Within the Kolkata Metropolitan Area</td>
<td>36</td>
</tr>
<tr>
<td>c. Downstream of the Kolkata Metropolitan Area</td>
<td>20</td>
</tr>
<tr>
<td>Renovation of Existing Jetties</td>
<td>24</td>
</tr>
<tr>
<td>Infrastructure Development at Shalimar Waterworks:</td>
<td></td>
</tr>
<tr>
<td>(Necessary Infrastructure, Dry Dock, Floating Dock, Tug, Work Boats &amp; Tug Boats etc.)</td>
<td></td>
</tr>
<tr>
<td>Loaded Carriage Transport (LCT) Jetties with RO RO Vessels</td>
<td>6 locations</td>
</tr>
<tr>
<td>Construction of vessels including cruises:</td>
<td></td>
</tr>
<tr>
<td>a. Steel Body Vessel</td>
<td>76</td>
</tr>
<tr>
<td>b. Wooden Body Vessel</td>
<td>60</td>
</tr>
<tr>
<td>c. Water Taxi</td>
<td>50</td>
</tr>
<tr>
<td>d. River Cruises</td>
<td>4</td>
</tr>
</tbody>
</table>
### A. PROJECTS FOR DEVELOPMENT OF PORTS AND INFRASTRUCTURE LINKED DIRECTLY TO PORTS

#### Project Name: Deep Sea Port at Bhor Sagar

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Parameters</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Project Proponent</td>
<td>Bhor Sagar Port Limited, a JV between Kolkata Port Trust (KoPT) &amp; Government of West Bengal (GoWB)</td>
</tr>
<tr>
<td>2</td>
<td>Project Objectives</td>
<td>Development of new deep sea major port</td>
</tr>
<tr>
<td>3</td>
<td>Project Type</td>
<td>Joint Venture</td>
</tr>
<tr>
<td>4</td>
<td>Tentative Cost Estimates (in INR &amp; USD)</td>
<td>₹16,000 CR. (US$ 2400 million)</td>
</tr>
<tr>
<td>5</td>
<td>Project Details</td>
<td>The JV has been formed in the name of Bhor Sagar Port Limited. The project is under process by way of equity participation by KoPT and GoWB</td>
</tr>
</tbody>
</table>
| 6      | Project Status                          | • Work for Rail connectivity in Sagar Island, Bridge between Lot-8 & Kachuberia and other infrastructure under progress.  
• Need rail-road connectivity from Dedicated Freight Corridor to Kashinagar  
• Need Concessionaire for Bhor Sagar Port development through PPP mode |
| 7      | Total Land Requirement (in acres)       | 251 acres of rayati land and 96 hectare of reclaimed land                |

#### Project Name: Deep Sea Port at Tajpur

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Parameters</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Project Proponent</td>
<td>Private Concessionaire</td>
</tr>
<tr>
<td>2</td>
<td>Project Objectives</td>
<td>Development of deep sea port</td>
</tr>
<tr>
<td>3</td>
<td>Project Type</td>
<td>Revenue Share Model</td>
</tr>
<tr>
<td>4</td>
<td>Tentative Cost Estimates (in INR &amp; USD)</td>
<td>₹5,000 CR. (US$ 750 million)</td>
</tr>
</tbody>
</table>
| 5      | Project Details                         | The port will be developed by a single concessionaire with facilities to handle multi commodities such as dry bulk, liquid bulk, containers and LNG/LPG  
• Phase - I  
  • Number of berths : 6  
  • Capacity : ~44 million tonnes  
• Phase - II  
  • Number of berths : 9  
  • Capacity : ~58 million tonnes |
| 6      | Project Status                          | • Need Concessionaire for Port development                              |
| 7      | Total Land Requirement (in acres)       | 1,500                                                                  |
### Infrastructure Projects in West Bengal

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name</th>
<th>Details</th>
<th>Project Cost</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Construction of Bridge from Rajarshak to Nandigram over Haldi river in Purba Medinipur</td>
<td>A bridge of approx 870 metre with approach road</td>
<td>₹500 CR (US$70 million)</td>
<td>In-Progress</td>
</tr>
<tr>
<td>2</td>
<td>Investment in National Highways</td>
<td>New Highways of 600 KMS ₹600 CR; Ongoing ₹12,063 CR; in the tender stage ₹3.728 CR; New highways for F.Y. 2015-16, 2016-17 ₹15,691 CR.</td>
<td>₹37,482 CR (≈US$5.6 billion)</td>
<td>In-Progress</td>
</tr>
<tr>
<td>3</td>
<td>Repairing and re-surfacing of roads surrounding Haldia &amp; other coastal areas</td>
<td>Linkage between industries and Haldia Port; Serve as a connection between Kukrsagi and Gourkhali</td>
<td>₹100 CR (US$156 million)</td>
<td>In-Progress</td>
</tr>
<tr>
<td>4</td>
<td>Metropolitan Transport Logistic Hub at Badayabati</td>
<td>Transport hub, transport terminal &amp; transport warehousing</td>
<td>₹5,000 CR (US$750 million)</td>
<td>Under Planning</td>
</tr>
<tr>
<td>5</td>
<td>Six New Townships</td>
<td>Each of the six thematic townships implements new age technology and eco-friendly, smart architecture in their planning. They will be set up on compact lands, allotted by the Bengal Government. Interest has been recorded from investors for setting up various hubs in these Smart Cities.</td>
<td>₹1,000 CR (US$1,650 million)</td>
<td>Under Planning</td>
</tr>
<tr>
<td>6</td>
<td>Water Transportation Facility from Kolkata to Digha including construction of a jetty at Digha</td>
<td>Creation of water transport facility from Kolkata to Digha and construction of a jetty at Digha</td>
<td>₹20 CR (US$3 million)</td>
<td>Under Planning</td>
</tr>
<tr>
<td>7</td>
<td>Renovation and upgradation of 103 jetties over the rivers of Haldia, Bhagirathi and Hooghly</td>
<td>Promotion of inland waterways transport through the rivers of Haldia, Bhagirathi and Hooghly for improvement of evacuation facility of the Haldia Port and simultaneously reducing the pressure on the road transport.</td>
<td>₹992 CR (US$150 million)</td>
<td>Under Planning</td>
</tr>
<tr>
<td>8</td>
<td>Investment in Deocha Pachami</td>
<td>Approx. 221 million tonne of coal will be raised from the mine and will be distributed to seven JV partner/states like Tamil Nadu/Karnataka and is proposed to be transferred through Ports. Huge deposit of good quality basaltic rock over the coal deposit is another area for investment and utilization of ports in the region.</td>
<td>₹20,000 CR (US$3,000 million)</td>
<td>In-Progress</td>
</tr>
<tr>
<td>9</td>
<td>Investment in mine explorations, undertaking mining operations, infrastructure in West Bengal</td>
<td>Extraction and beneficiation of Iron ore. Movement of Ore through port.</td>
<td>₹800 CR (US$120 million)</td>
<td>In-Progress</td>
</tr>
</tbody>
</table>
Reasons for proposing new investments in ports
Enhanced volume of cargo for key commodity clusters in Eastern region (ER) in (MTPA):
115.6 (2014-15) → 439.5 (2025) → 719 (2035) including:

- Thermal coal cargo volume to rise to 187 MTPA (2025) – partly by import from SE Asia and partly by shipping from other states from Eastern Coalfields Ltd./Bharat Coking Coal Ltd
- Coke & Coal import to rise by 16.1 MTPA from New Zealand/Australia – Scope for development of steel/thermal plant cluster in ER
- Iron ore import/export to increase by 2.1 MTPA now diverting from surface transport
- West Bengal is a front runner state in agriculture/horticulture/fish production but there is a huge deficit in fertilizer and country’s 42% fertilizer is imported from China.
- Huge raw skin export, movement of forest products

- Scope for development of specialized cluster of ports/ dry docks for fertilizer, iron ore, coal, coke, food grains, fish, processed food, rubber, edible oil & container

EXPANDING HORIZONS
Projects / Activities Identified

Tourism
- Scope of water tourism in Kolkata – Sagar – Haldia – Mandarmani – Digha route
- Scope of water tourism park at Sagar and Mandarmani
- Further development of Sunderbans as a tourist destination

Transport
Multi-modal transport hub, inland waterway services in Ganges, Damodar, Ichamati and Sunderbans in the first phase for cargo, passenger movement and tourism purpose

Logistics hubs and Warehousing Facilities
Howrah, South 24 Parganas, Purba and Paschim Medinipur districts

Power
Scope for development of thermal power plant in Purba Medinipur and solar parks in Sagar Island

Fisheries
Scope for development of fishing port/ harbour in South 24 Parganas / at Shankarpur in Purba Medinipur

Skill
Technical Training Centre in South 24 Parganas for ship/ barge repairing