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Government of West Bengal

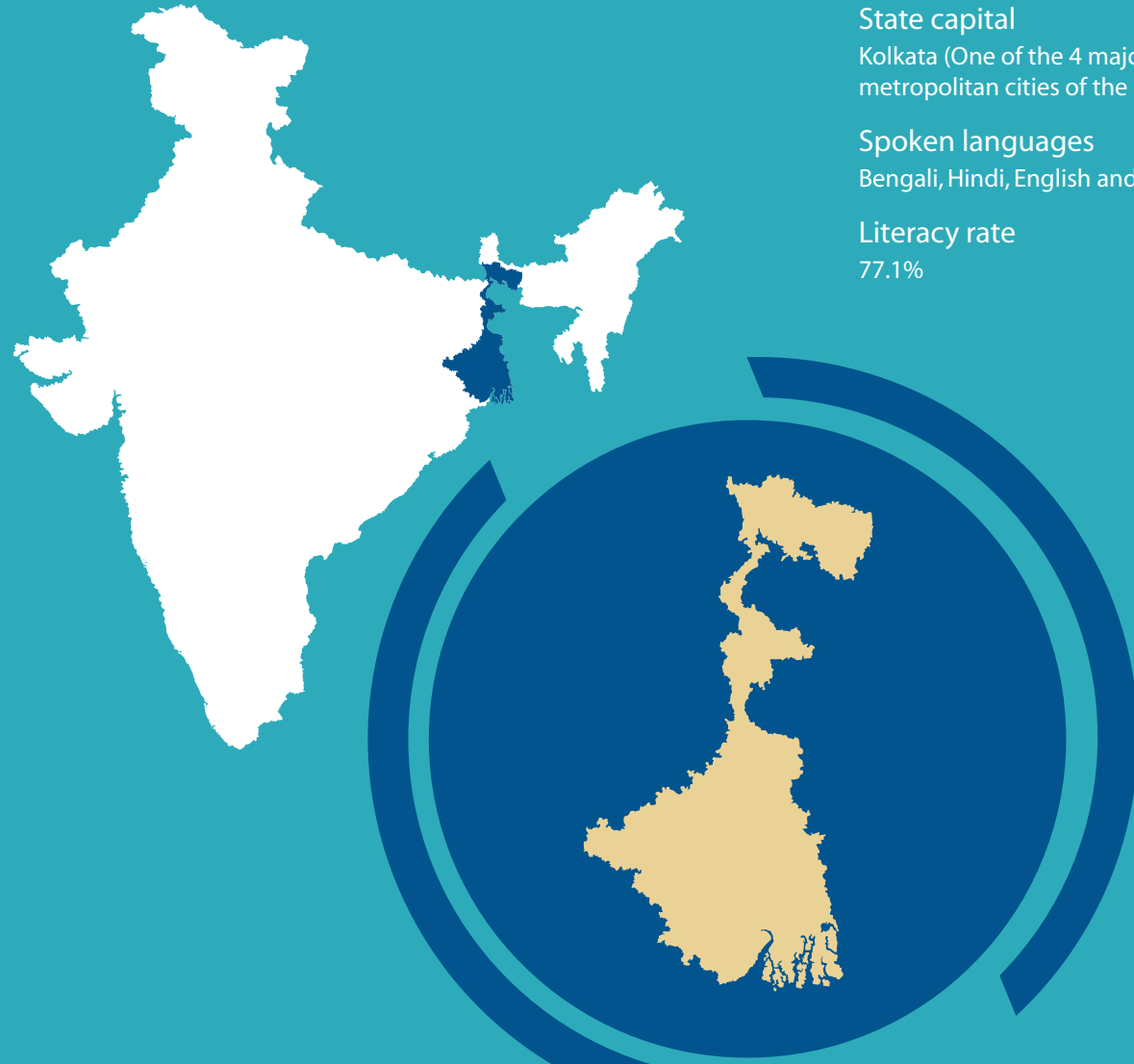
WEST BENGAL

A New Frontier For Maritime Development



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%

Economic Powerhouse

- 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)

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

- **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



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

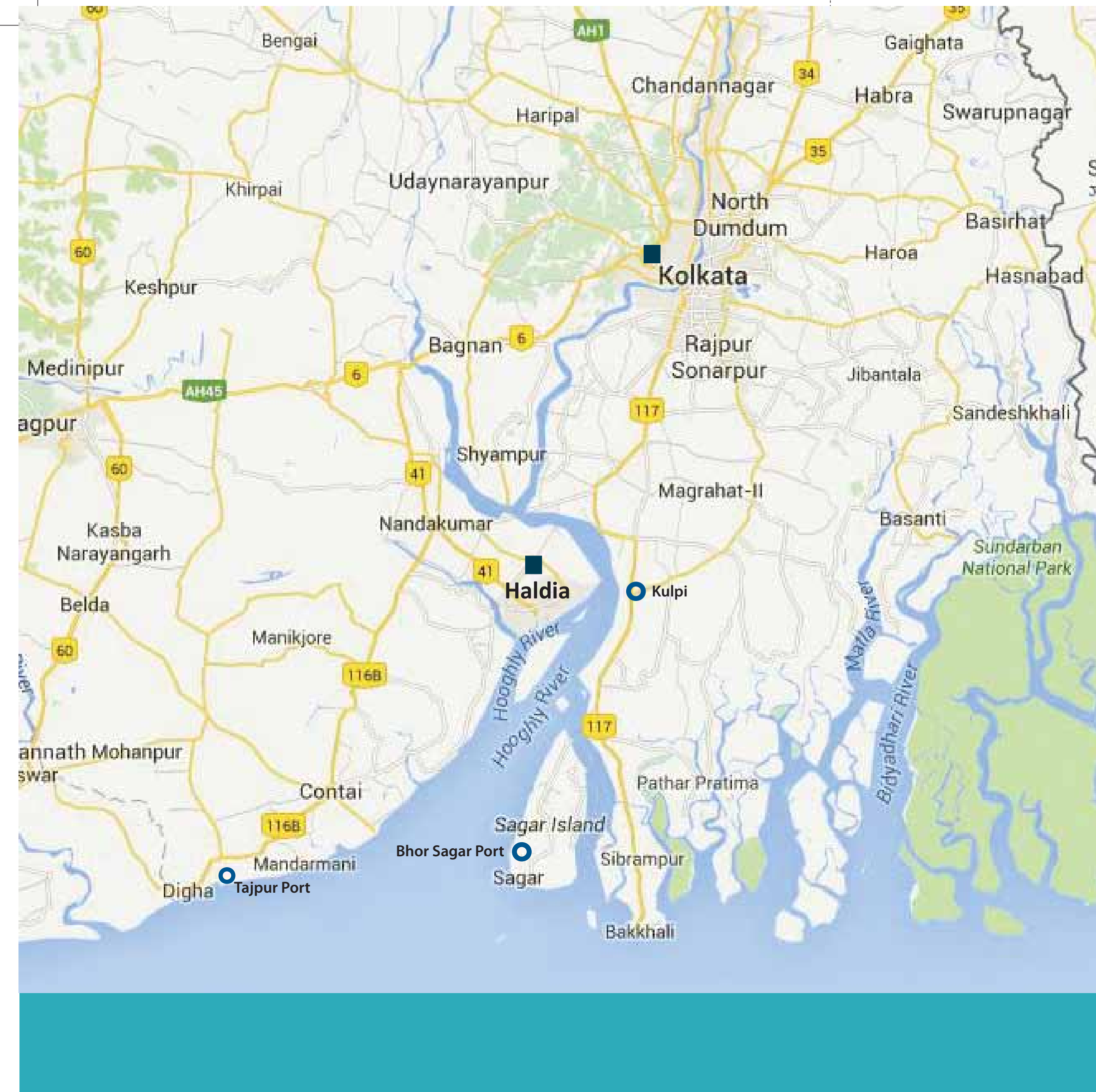
EXISTING

- Kolkata Port
- Haldia Port

UPCOMING

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





Map Key

- Existing Ports
- Proposed Ports
- Major Roads
- Minor/Other Roads

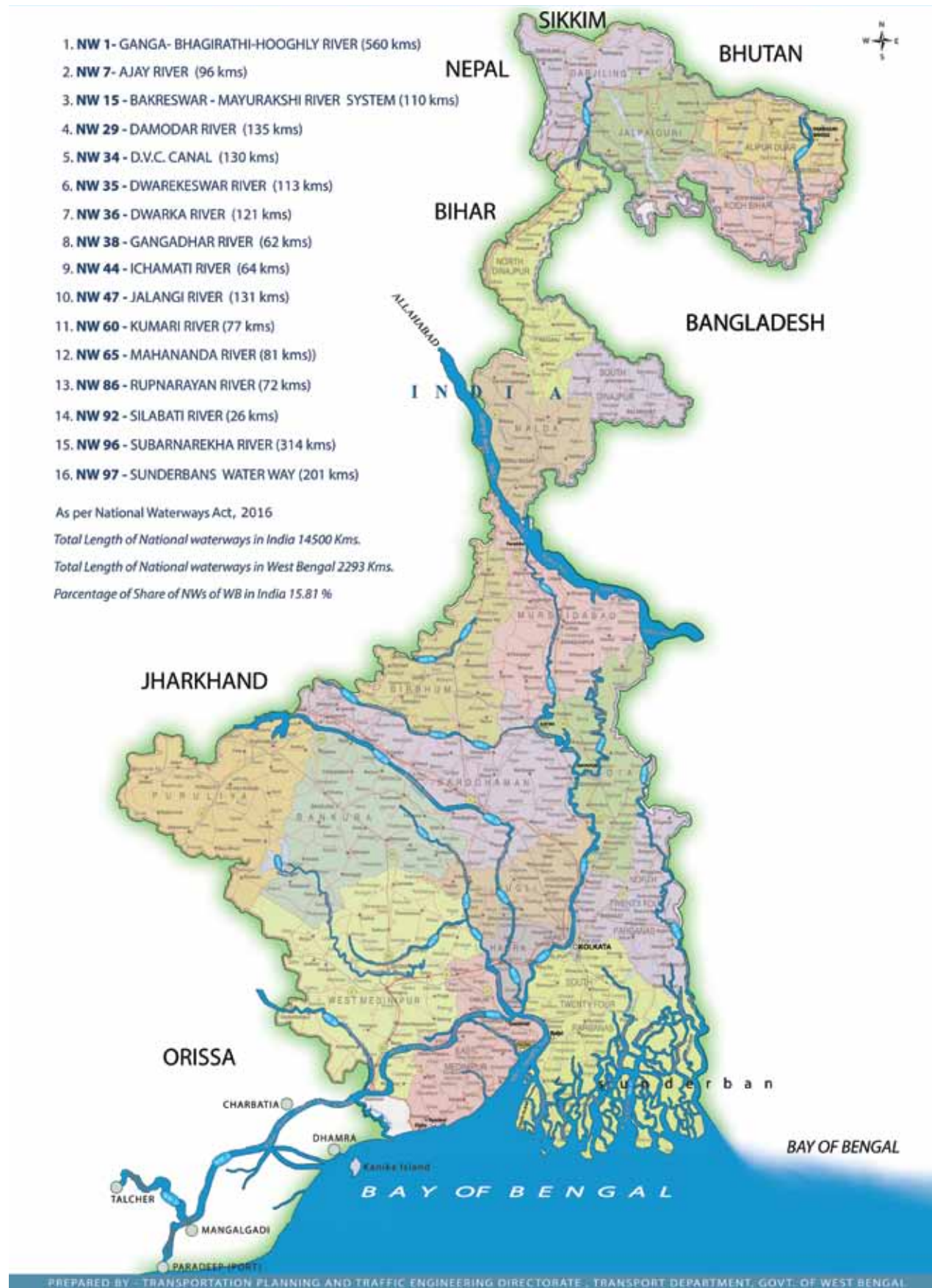
Charting New Waters

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



National Waterways in the State of West Bengal



Inland Waterways in 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

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

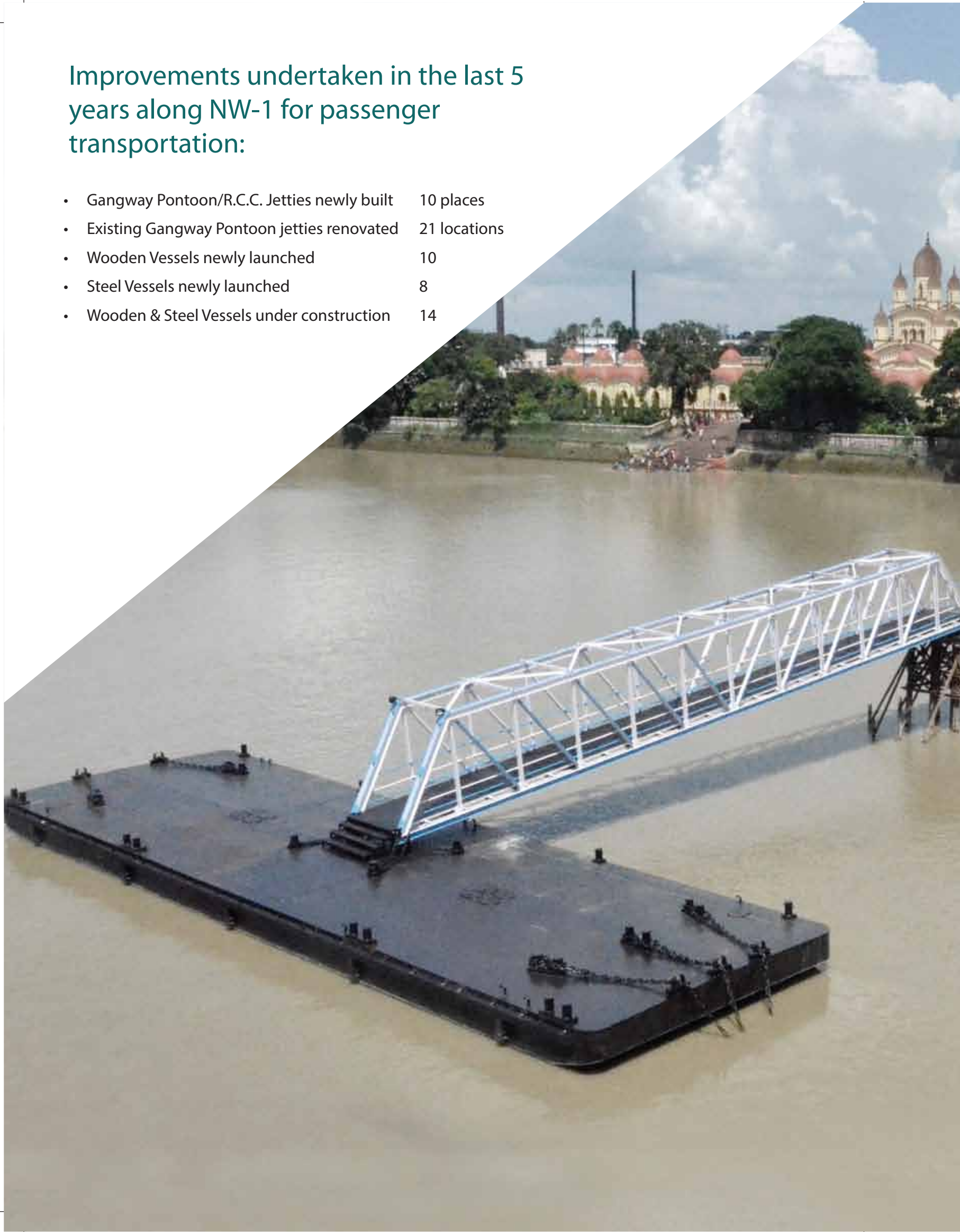
- Gangway Pontoon/R.C.C. Jetties newly built 10 places
- Existing Gangway Pontoon jetties renovated 21 locations
- Wooden Vessels newly launched 10
- Steel Vessels newly launched 8
- Wooden & Steel Vessels under construction 14

Future Plan :

Projects	Number
Total number of proposed gangway pontoon type jetties with suitable pathway for river transport stations for development of passenger ferry services along NW-1	
• Proposed New Jetties:	
a. Upstream of the Kolkata Metropolitan Area	20
b. Within the Kolkata Metropolitan Area	36
c. Downstream of the Kolkata Metropolitan Area	20
• Renovation of Existing Jetties	24
• Infrastructure Development at Shalimar Waterworks : (Necessary Infrastructure, Dry Dock, Floating Dock, Tug, Work Boats & Tug Boats etc.)	
• Loaded Carriage Transport (LCT) Jetties with RO RO Vessels	6 locations
• Construction of vessels including cruises :	
a. Steel Body Vessel	76
b. Wooden Body Vessel	60
c. Water Taxi	50
d. River Cruises	4

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.**





A. PROJECTS FOR DEVELOPMENT OF PORTS AND INFRASTRUCTURE LINKED DIRECTLY TO PORTS

Project Name: Deep Sea Port at Bhor Sagar		
Sl. No.	Parameters	
1	Project Proponent	Bhor Sagar Port Limited, a JV between Kolkata Port Trust (KoPT) & Government of West Bengal (GoWB)
2	Project Objectives	Development of new deep sea major port
3	Project Type	Joint Venture
4	Tentative Cost Estimates (in INR & USD)	₹16,000 CR. (US\$ 2400 million)
5	Project Details	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
6	Project Status	<ul style="list-style-type: none"> 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		
Sl. No.	Parameters	
1	Project Proponent	Private Concessionaire
2	Project Objectives	Development of deep sea port
3	Project Type	Revenue Share Model
4	Tentative Cost Estimates (in INR & USD)	₹5,000 CR. (US\$ 750 million)
5	Project Details	<p>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</p> <ul style="list-style-type: none"> Phase - I <ul style="list-style-type: none"> Number of berths : 6 Capacity : ~44 million tonnes Phase - II <ul style="list-style-type: none"> Number of berths : 9 Capacity : ~58 million tonnes
6	Project Status	<ul style="list-style-type: none"> Need Concessionaire for Port development
7	Total Land Requirement (in acres)	1,500

Infrastructure Projects in West Bengal				
Sl. No.	Name	Details	Project Cost	Status
1	Construction of Bridge from Rajarchak to Nandigram over Haldi River in Purba Medinipur	A bridge of approx 870 metre with approach road	₹500 CR. (US\$70 million)	In-Progress
2	Investment in National Highways	New Highways of 600 KMS ₹6000 CR.; Ongoing ₹12,063 CR.; In the tender stage ₹3,728 CR.; New highways for F.Y. 2015-16, 2016-17 ₹15,691 CR.	₹ 37,482 CR. (~US\$5.6 billion)	In-Progress
3	Repairing and re-surfacing of roads surrounding Haldia & other coastal areas	Linkage between industries and Haldia Port. Serve as a connection between Kukrahati and Geonkhali	₹100 CR. (US\$16 million)	In-Progress
4	Metropolitan Transport Logistic Hub at Baidyabati	Transport hub, transport terminal & transport warehousing	₹5,000 CR. (US\$ 750 million)	Under Planning
5	Six New Townships	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. <ul style="list-style-type: none"> • Education & Health City at Dabgram (Teesta City) • Wellness City at Baruipur (Uttam City) • Analytics City at Kalyani (Samriddhi) • Culture City at Bolpur (Gitabitan) • Industrial City at Asansol (Agnibina) • Sports City at Dumurjala (Sports City) 	₹11,000 CR. (US\$ 1,650 million)	Under Planning
6	Water Transportation Facility from Kolkata to Digha including construction of a jetty at Digha	Creation of water transport facility from Kolkata to Digha and construction of a jetty at Digha	₹20 CR. (US\$ 3 million)	Under Planning
7	Renovation and upgradation of 103 jetties over the rivers of Haldi, Bhagirathi and Hooghly	Promotion of inland waterways transport through the rivers of Haldi, Bhagirathi and Hooghly for improvement of evacuation facility of the Haldia Port and simultaneously reducing the pressure on the road transport.	₹992 CR. (US\$ 150 million)	Under Planning
8	Investment in Deocha Pachami	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.	₹20,000 CR. (US\$ 3,000 million)	In-Progress
9	Investment in mine explorations, undertaking mining operations, infrastructure in West Bengal	Extraction and beneficiation of Iron ore. Movement of Ore through port.	₹800 CR. (US\$ 120 million)	In-Progress

Infrastructure Projects in West Bengal				
Sl. No.	Name	Details	Project Cost	Status
10	West Bengal North-South Road Corridor Project (SASEC Port connectivity)	Improvement of road connectivity by strengthening & widening of existing State roads, providing bypasses around the congested locations and establishing new connectivity.	₹4,700 CR. (US\$700 million)	In-Progress. Financial closure completed
11	Construction of Marine Aquarium/ Museum at Digha	Marine Aquarium/Museum and arrangement of Dolphin Show	₹20 CR. (US\$3 million)	In-Progress
12	Investment in Refinery	Ensure steady supply of Naptha to HPL	₹20,000 CR. (US\$3,000 million)	Land acquisition
13	GEECL investment in West Bengal	The Company has started the business and this is for capacity augmentation	₹1,700 CR. (US\$260 million)	In-Progress
14	Investment in LNG Pipeline	A Hiranandani Group's liquefied natural gas (LNG) terminal with LNG pipeline across 715 Km. Project connected to Kolkata and Haldia Ports.	₹3,100 CR. (US\$470 million)	In-Progress
15	Essel Group Investment in Urban Development, Highway, Tourism and IT	Various projects in the sectors of Urban Development, Highway, Tourism and IT across various fields	₹4,000 CR. (US\$600 million)	In-Progress
16	Investment at Salbani	Investment over a period of 5 years in- Cement ₹1500 CR.; Power Plant ₹8000 CR.; Paint ₹1000 CR.	₹10,500 CR. (US\$1,580 million)	In-Progress
17	Mahindra & Mahindra investment in Kharagpur	The project will be set up at the Vidyasagar Industrial Park at Kharagpur with nearest sea ports at Haldia and Kolkata.	₹143.5 CR. (US\$22 million)	In-Progress
18	Investment at Plastic Park	Easy access to markets, it has huge potential for production and export of a wide range of products.	₹27.4 CR. (US\$4 million)	In-Progress
19	Zhongtong Bus Holding Co. Ltd. investment in Aerropolis project	Joint Venture between Zhongtong Bus & Holding Co. Ltd and Government of West Bengal for manufacturing of buses	₹1,500 CR. (US\$230 million)	In-Progress
20	Titagarh Towers setting of modern passenger train facility	Setting up of modern passenger train facility at Uttarpara	₹250 CR. (US\$30 million)	In-Progress

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 coastal cruise tourism in Kolkata – Mandarmani – Digha – Chandipur – Puri – Sonapur – Srikakulam – Visakhapatnam – Kakinada – Chennai – Puducherry – Rameshwaram – Kanyakumari route
- Scope of water tourism park at Sagar and Mandarmani
- Further development of Sunderbans as a tourist destination



Skill

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



Fisheries

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

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

