







Sagarmala is the first of its kind programme for port-led-development. The earlier thrust on developing ports didn't adequately consider the backward linkages in terms of port road & rail connectivity to the hinterland & developing industrial areas in the port vicinity.

Sagarmala presents an integrated plan for port modernisation, enhancing port connectivity, port linked industrialisation and coastal community development.

We expect public & private investment of over Rs. 12 lakh Crore in these areas to bring about development of the country by exploring the natural advantage of the vast coastline. We are confident of making Indian manufacturing sector more competitive and create more jobs for the youth of the country through the flagship programme of Sagarmala.

> Nitin Gadkari Honourable Minister







#### **PREFACE**

The vision of the Sagarmala programme is to stimulate economic growth by bringing port-driven prosperity to the people.

In the last 4 years, focused initiatives undertaken by the Ministry of Shipping include improving efficiency of ports, building capabilities and capacities of ports, creating seamless transport connectivity, and upskilling the coastal community.

While transforming the logistics sector by creating world-class infrastructure, Sagarmala will provide growth opportunities and employment to coastal and hinterland communities by unlocking the full potential of India's coastline and waterways.







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Accelerating India's growth through ports



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Port Modernisation



Port Connectivity

Driving growth through holistic development of ports



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Coastal Community Development

Transforming connectivity for sustainable growth



Inland Waterways



Coastal Shipping

4 Harnessing opportunities for the New India



Ship Repair & Ship Building



Cruise Shipping



Ease of Doing Business









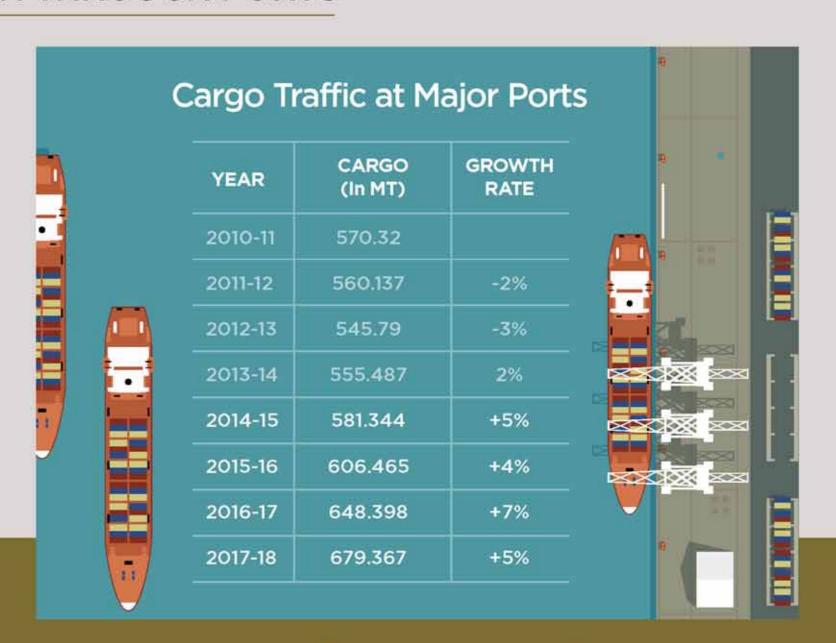
#### **ACCELERATING INDIA'S GROWTH THROUGH PORTS**

Efficiency achieved in cargo handling



# 5 TIMES

faster growth in Cargo Traffic at Major Ports during 2014-18 compared to 2010-2014.









#### ACCELERATING INDIA'S GROWTH THROUGH PORTS

#### Growth in profits

Growth in Operating Surplus

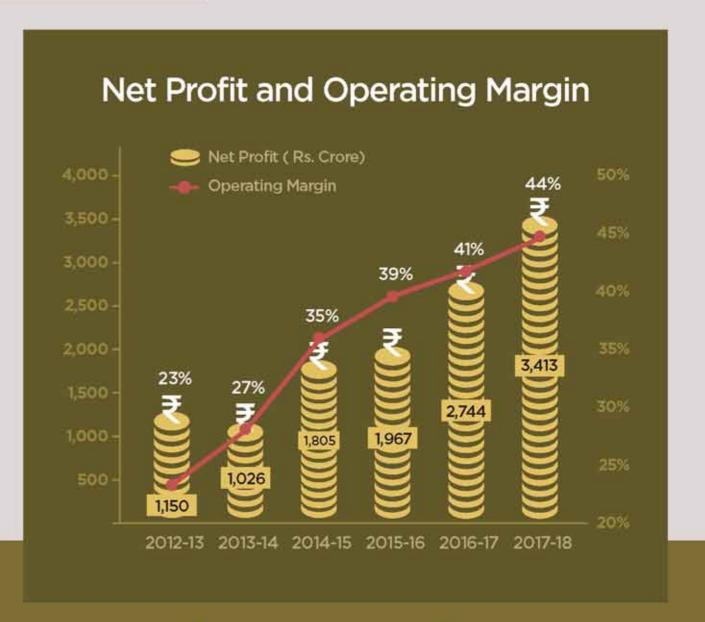
Growth from Rs. 2,519 Crore in 2013-14 to Rs. 5,667 Crore in 2017-18.

0%		)%	%		20%				
Growth Rate	2,561	2,571	1,807	2,519	3,599	4,297	4,920	5,667	
Operating Surplus (Rs. Crore)	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	

Operating Margin

from a low of 27% to a high of 44% in last 4 years

Increased efficiency at Major Ports resulted in tripling the profits during the last 4 years from Rs. 1,026 Crore in FY14 to Rs. 3,413 Crore in FY18.







#### ACCELERATING INDIA'S GROWTH THROUGH PORTS

#### Improvement in performance, reduction in turnaround time









YEAR	HOURS	Overall
2011-12	107	Turnaround
2012-13	102	Time (Hrs)
2013-14	94	
2014-15	96	
2015-16	87	
2016-17	82	
2017-18	64	



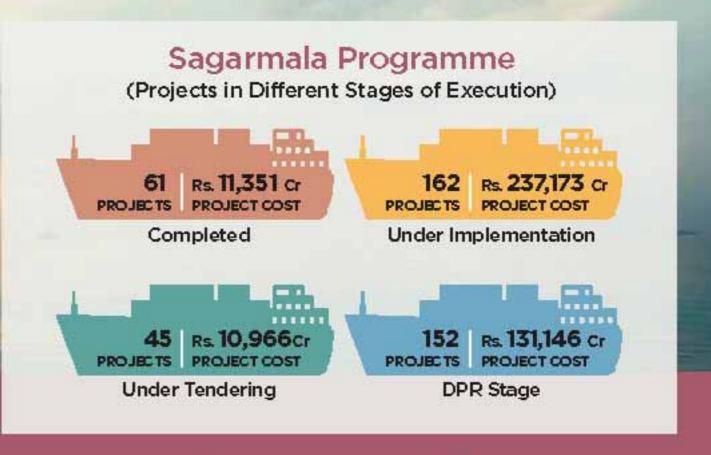


# SAGARMALA

#### Project Implementation

- The Sagarmala Programme is based on the 4 key pillars for Port-led development and comprises of 577 projects across 19 States and UT's.
- Out of the 577 projects, more than 70% of the projects are in various stages of implementation.

#### Sagarmala Overview 577 Projects Port Port-linked Coastal Community Port Industrial isation Modernisation. Connectivity Development 57 211 243 66 Projects Projects Projects Projects Rs. 476,258 cr Rs. 249,785 cr Rs.142,955 cr Rs. 7,125 cr Value of Project Value of Project Value of Project Value of Project

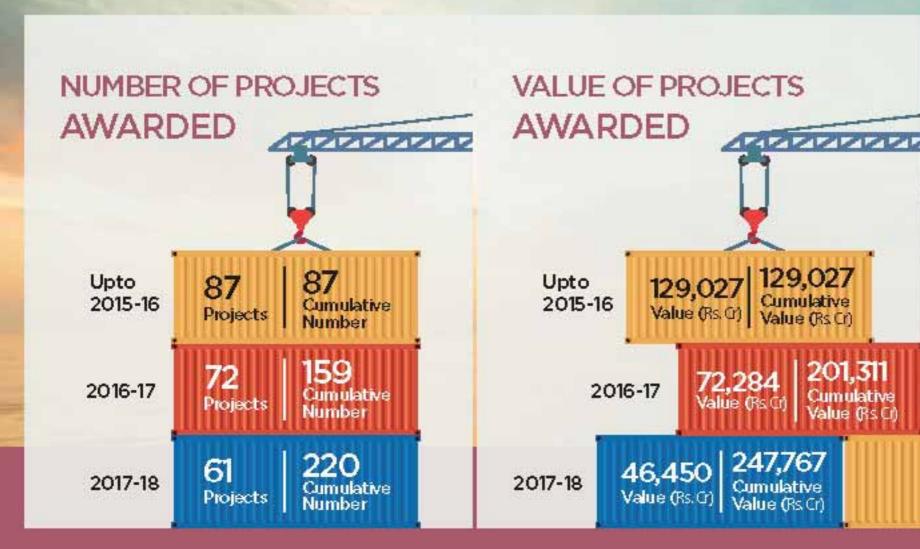


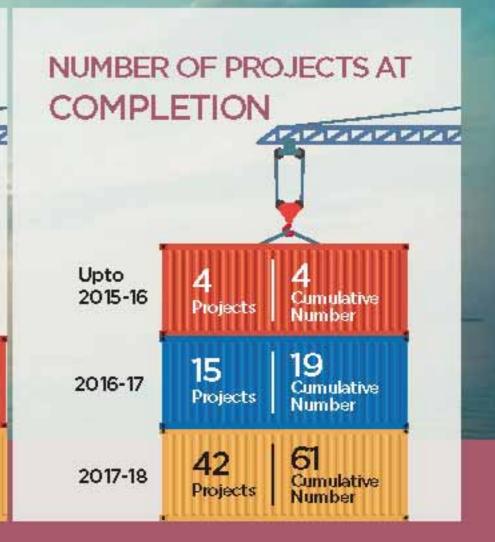




# SAGARMALA

#### **Project Implementation**







# SAGARMALA

# **SAGARMALA**

### Projects in Coastal States

States	Projects Completed	Work In Progress	Total	Value (Rs. In Crore)
Gujarat	2	49	51	1,21,626
Maharashtra	6	102	108	2,34,807
Goa	4	25	29	11,710
Karnataka	5	37	42	23,983
Kerala	3	37	40	14,828
Tamil Nadu	15	88	103	2,25,831
Andhra Pradesh	12	92	104	1,62,961
Odisha	7	38	45	45,593
West Bengal	6	31	37	31,654





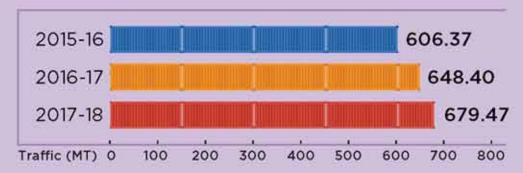




#### Traffic growth at Major Ports

Major boost through improving Port Infrastructure, increasing traffic & efficiency and decreasing costs

#### TRAFFIC HANDLED AT THE MAJOR PORTS



- 2 Major Ports handled more than 100 million tonnes of cargo in FY 2017-18.
- · For the first time a Major Port in India, Deendayal Port (Kandla), crossed 100 MT of traffic in 2016-17. Paradip Port has become the second major port to cross the figure of 100 MT of traffic during 2017-18.



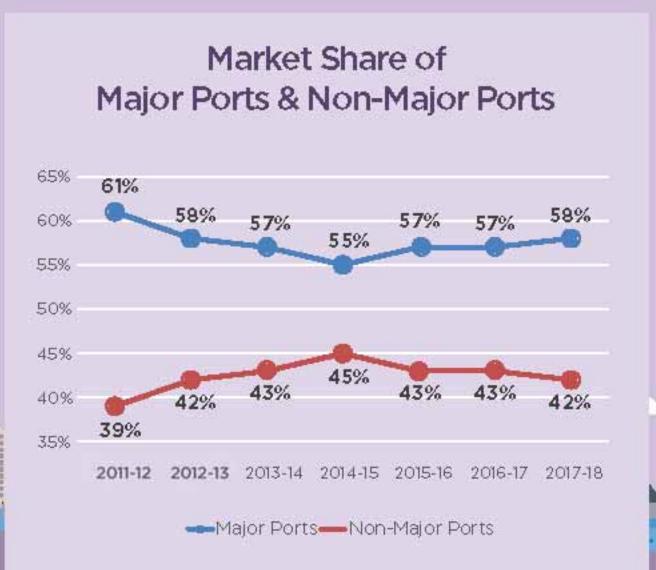




# Traffic at Major & Non-Major Ports

- The share of Major Ports in traffic handled which declined continuously up to 2014-15, is increasing since then.
- The share of Major Ports in traffic handled, was 55% in 2014-15 and has increased to 58% in 2017-18.





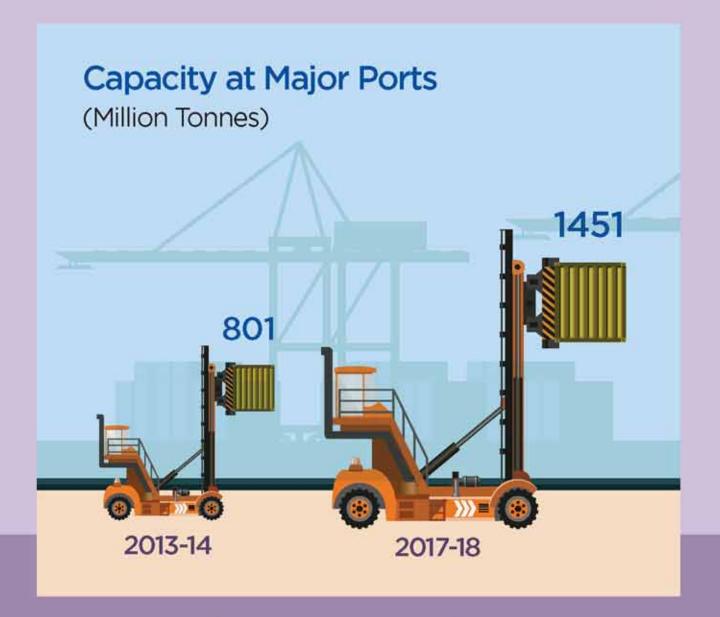




#### Capacity addition at Indian Ports

Projects identified to increase the capacity to 3500+ MMTPA to cater to the projected traffic of 2500 MMTPA by 2025

	Number	Cost (Rs. Crore)
Total Projects under Port Modernisation	243	142,955
Total Capacity Addition Projects at Major Ports	107	68,092
Total Completed Capacity Addition Projects at Major Ports	15	7,167
Work in Progress Projects for Capacity Addition at Major Ports	92	60,925







#### Efficiency improvement at Major Ports

116 initiatives identified across 12 Major Ports to unlock 100MTPA capacity, out of which 86 initiatives have been implemented unlocking 80 MTPA

RFID based Gate-automation System implemented in all Major ports

e-Delivery Order through PCS made mandatory along with e-invoicing and e-payment

Direct Port Delivery and Direct Port Entry facilitated for faster clearance

Container Scanners being installed for faster clearance







**Important Projects** 

Fourth Container Terminal at JNPT inaugurated by the Prime Minister on 18th Feb. 2018

Largest container terminal in India with a capacity of 4.8 TEUs

India's largest FDI project in the port sector

Estimated investment of Rs. 7,915 crore







**Important Projects** 

### **Sustainability Initiatives**

#### 24.32 MW Non-conventional energy

commissioned at various Major Ports through solar and wind energy projects in 2016-17

Solarization of all lighthouses with achievement of 100% green energy status







# BUILDING INFRASTRUCTURE FOR NEW INDIA

#### **Important Projects**

Shipping Infrastructure Facilities at Andaman & Nicobar Islands and Lakshadweep

- Extension of New Dry Dock-II in Portblair Rs. 96.24 Cr
- Procurement of Two Tugs Rs. 63.55 Cr
- Replacement & Upgradation of Cargo Handling equipment -Rs. 39.02 Cr
- Development of Sea Route to Baratang 45.16 Cr
- Extension of Wharf 60 m at Hope Town in South Andaman Rs. 17.49 Cr
- Construction of Berthing Jetty in Neil Island Rs. 38.19 Cr
- . Construction of Additional Approach and Wharf at Hut Bay in Little Andaman - Rs. 45.55 Cr
- · Acquisition of 6 Ship for Increased Inter-Island Connectivity at a Cost of Rs. 1800 Cr
- Acquisition of Container Vessel for Lakshadweep at a Cost of Rs. 90 Cr









#### Rail

More than 50% of the rail connectivity projects identified under Sagarmala are already under implementation through various agencies such as Indian Port Rail Corporation Limited (IPRCL)

IPRCL is a joint venture between Major Ports and Rail Vikas Nigam Limited (RVNL) dedicated to enhancing port rail connectivity and evacuation, while paving the way for seamless integration of port-railway system with the Indian Railways network.



#### RAIL CONNECTIVITY PROJECTS STATUS









#### **ENHANCING LAST MILE CONNECTIVITY**

#### Road



**Total Road Projects** 



Cost Rs. 1,79,761 Cr

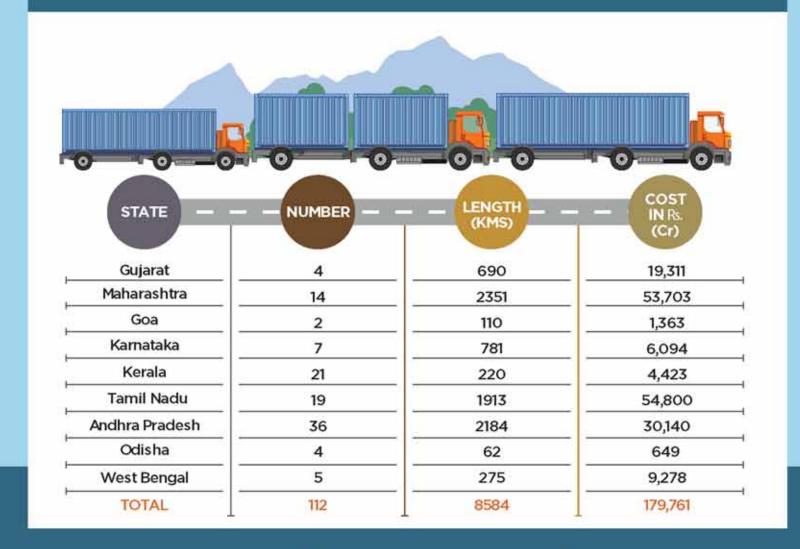


Length 8,584 Km



Coverage 12 major and 27 non-major ports

#### ROAD CONNECTIVITY OF PORTS THROUGH SAGARMALA







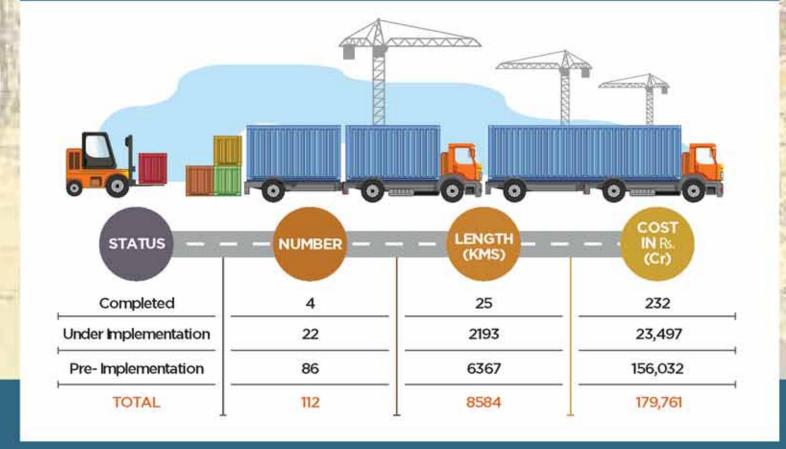


# **ENHANCING LAST MILE CONNECTIVITY**

Road

More than 20% of the projects are in various stages of implementation

# ROAD CONNECTIVITY PROJECTS STATUS









Multi Modal Logistics Park (MMLP)

15 MMLPs identified under Sagarmala Cost Rs. 3,561 Cr







#### Multi Modal Logistics Park (MMLP)



#### STATUS OF MULTI MODAL LOGISTICS PARKS (MMLPS)

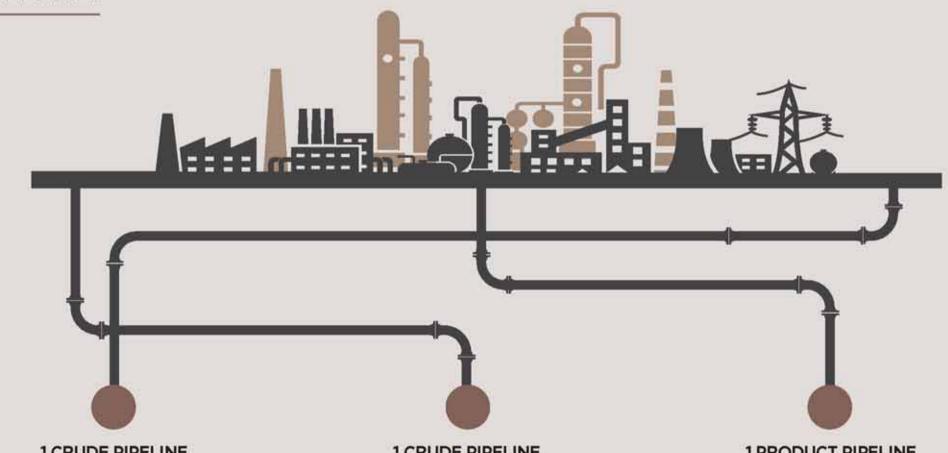
		PROJECT NAME	STATE	COST (Rs. Cr)	IMPLEMENTING AGENCY	DEVELOPMENT STATUS
	1	New ICD in South Uttarakhand (Pantnagar)	Uttarakhand	120	CONCOR	Completed
	2	New ICD in Naya Raipur	Chhattisgarh	207	CONCOR	Under Implementation
	3	New ICD in Hyderabad (Nagulapally)	Telangana	102	CONCOR	Under Implementation
	4	New ICD in Jharsuguda	Odisha	100	CONCOR	Under Implementation
	5	MMLP at Swaroopganj in Rajasthan	Rajasthan	102	CONCOR	Under Implementation
	6	MMLP at Phulera in Rajasthan	Rajasthan	310	CONCOR	DPR to be Prepared
11	7	MMLP at Paradip Port	Odisha	114	CONCOR	Under Implementation
	8	New ICD in North Bengal (Darjeeling)	West Bengal	85	SJDA	Under Implementation
	9	Phase II of Multi Model Logistics Hub - Ving Port	Andhra Pradesh	260	VPT	Under Implementation
	10	Dry Port cum MMLP Terminal at Jolarpet	Tamil Nadu	200	ChPT	DPR to be Prepared
	11	MMLP in Jogighopa, Assam	Assam	207	MoRTH	DPR to be Prepared
	12	Dry Port at Niphad in Nashik District	Maharashtra	500	JNPT	DPR to be Prepared
î	13	Dry Port at Ranjani Village in Sangli District	Maharashtra	500	JNPT	DPR to be Prepared
	14	Dry Port at Wardha	Maharashtra	353	JNPT	Under Implementation
	15	Dry Port at Jalna	Maharashtra	400	JNPT	Under Implementation





**Pipeline** 

Pipeline projects (cost: Rs. 5,084 Cr) identified for transportation of crude oil and petroleum products across long distances



1 CRUDE PIPELINE **PROJECT** 

Rs. 1,584 Cr

AT SALAYA - MATHURA **UNDER IMPLEMENTATION**  1 CRUDE PIPELINE **PROJECT** 

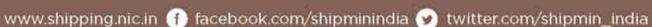
Rs. 500 Cr

AT CHENNAI PETROLEUM CORPORATION LTD. (CPCL) UNDER IMPLEMENTATION

1 PRODUCT PIPELINE **PROJECT** 

Rs. 3,000 Cr

AT HYDERABAD - PARADIP **UNDER IMPLEMENTATION** 







Accelerating India's growth through ports



Port Performance



Port Modernisation



Port Connectivity 2 Driving growth through holistic development of ports



Port-Linked Industrialisation



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Transforming connectivity for sustainable growth



Inland Waterways



Coastal Shipping Harnessing opportunities
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## A ROBUST ECO-SYSTEM OF PROSPERITY

#### 14 Coastal Employment Zones

(CEZs) identified across 9 coastal states. Within each CEZ there would be multiple industrial Cluster called CEU (Coastal Employment Unit)

#### 35 Industrial Clusters across three Sectors

namely - Energy, Materials and Discrete Manufacturing, identified

#### 12 Bulk Clusters for Basic Input Industries

such as Power, Refineries & Petrochemicals, Steel and Cement

#### 23 Discrete Manufacturing Clusters

in the labor-intensive sectors of Electronics, Apparel, Leather Products, Furniture and Food-Processing etc.

#### **Total 57 Industrialization Projects**

near ports were identified worth Rs. 476,258 Cr out of which 18 projects worth Rs. 150000 Cr have either been completed or are under implementation









#### A ROBUST ECO-SYSTEM OF PROSPERITY

#### **Key Highlights**



Port-linked SEZ under implementation at JNPT expected to attract investment of around Rs. 12,764 Cr from inclustries that could create more than 50,000 jobs



Smart Port Industrial Cities (SPICs) are under implementation at Kandla and Paradip and expected to attract Investments worth over Rs. 13,000 Cr and employment generation potential of over 55,000



1 mega food processing park at Satara, Maharashtra cost: Rs. 139 Cr has been completed



3 Power Clusters (Rs. 76,547 Cr) in Krishnapatnam (AP), Ennore (TN) and Tuticorin (TN)



Coastal Employment Units (CEUs) at Tuticorin and Ennore are planned for development



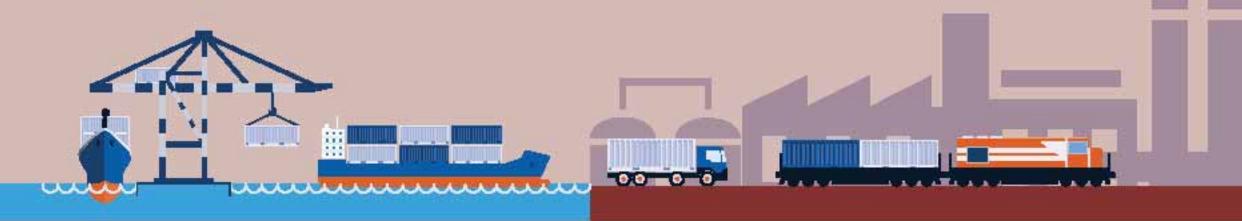
2 Maritime Clusters are planned for development in Gujarat and Tamil Nadu



8 Electronics Manufacturing Clusters cost Rs. 1704 Cr in AP, Gujarat, Odisha, Kerala, West Bengal



2 Food Processing Parks cost Rs. 248 Cr in AP under implementation









COASTAL COMMUNITY DEVELOPMENT

Providing livelihoods, enhancing lives





# PROVIDING LIVELIHOODS, ENHANCING LIVES

#### Skill Development



Skill gap study of 21 coastal districts completed and district action plan prepared



Skill development in Ports and Maritime sector with DDU-GKY to train 30,000 persons for the next 3 years



Fire safety training project for workers at Alang-Sosiya shipyard 4,036 workers trained



Under coastal district skilling programmes in convergence with DDU-GKY

1,917 candidates trained 1,123 candidates placed



JNPT Multi-Skill Development Centres being set up for training 1,500 persons annually in the maritime sector







# PROVIDING LIVELIHOODS, ENHANCING LIVES

#### **Fishing Harbours**

To improve the livelihood of fishermen community in 9 coastal states, total 26 Fishing Harbour Projects (Rs. 3,954 Cr) have been identified, which will benefit lakhs of fishermen





**FISHING HARBOUR PROJECTS** HAVE BEEN IDENTIFIED





# FISHING HARBOUR PROJECTS

S. No.	Project Name	Project Status	State	Cost (Crore)	No. of Fishermen Benefitted	Fish Landing (Ton/yr)
1	Third stage expansion including modernisation of the existing fishing harbour of Malpe in Udupi District in Karnataka	Completed	Karnataka	50	3500	10000
2	Expansion of fishing harbour at Chinnamuttomin Kanyakumari District in Tamil Nadu	Completed	Tamil Nadu	74		
3	Modernisation of the existing fishing harbour at Amadalli in Uttara Kannada	Under Implementation	Karnataka	19	2000	4000
4	Stage-II expansion of Mirkawada Fishing Harbour in Ratnagiri District	Under Implementation	Maharashtra	75	17230	40000
5	Construction of Fishing Harbour at Thalai in Kannur District in Kerala	Under Implementation	Kerala	35	59369	15700
6	Construction of Mini Fishing Harbour Chettuva in Thrissur District in Kerala	Under Implementation	Kerala	30	34853	8000
7	Constructin of Fishing Harbour at Poompuhar in Nagapattinam District in Tamil Nadu	Under Implementation	Tamil Nadu	148	30000	
8	Modernisation of Sassoon Dock Fishing Harbour	Under Implementation	Maharashtra	52		48000
9	Fishing Harbour Phase-3 at Mangrol, District Junagadh	Under Implementation	Gujarat	158	10000	
10	Development of Fishing Harbour at Kulai	Pre Implementation	Karnataka	197	2500	27100
11	Fishermen development projects at Vadhavan (fishing harbour, fish processing centre, Deep sea fishing vessels)	Pre Implementation	Maharashtra	80		
12	Fishermen development projects at Enayam (fishing harbour, fish processing centre, Deep sea fishing vessels)	Pre Implementation	Tamil Nadu	80		
13	Fishing harbour Phase-2 at Veraval, District Gir Somnath	Pre Implementation	Gujarat	260		







# FISHING HARBOUR PROJECTS

S. No.	Project Name	Project Status	State	Cost (Crore)	No. of Fishermen Benefitted	Fish Landing (Ton/yr)
14	Development of Fishing Harbour in Juvvaladinne in SPSR Nellore District in the State of Andhra Pradesh	Pre Im plementation	Andhra Pradesh	242	69750	
15	Phase-2 development of existing fishing harbour at Machilipatnam in Krishna district	Pre Implementation	Andhra Pradesh	252	57300	
16	Phase-2 development of existing fishing harbour at Nizampatnam in Guntur district	Pre Im plementation	Andhra Pradesh	341	63775	
17	Development of fishing harbour at Vodarevu in Prakasam district	Pre Im plementation	Andhra Pradesh	409	82200	
18	Development of fishing harbour at Uppada (V) U. Kotapalli (M) in East Godavari district	Pre Implementation	Andhra Pradesh	289	78225	
19	Construction of Major Fishing Harbour at Vasco Bay, MoPT	Pre Im plementation	Goa	104		
20	Development of Fishing Harbour at Karanja in Raigad District	Pre Implementation	Maharashtra	150	1700	
21	Development of Fishing Harbour in Anandwadi, Sindhudurg District	Pre Im plementation	Maharashtra	88	6300	5800
22	Development of Hejmaadi Kodi Fishing Harbour in Udupi District	Pre Im plementation	Karnataka	139	7000	26224
23	Development of Fishing Harbour at Versova in Mumbai Suburban	Pre Implementation	Maharashtra	319	2900	
24	Construction of fishing harbour at Chandipur	Pre Implementation	Odisha	46	5600	
25	River mouth dredging of Mahanadi at Paradipfishing harbour	Pre Im plementation	Odis ha	21		
26	Fishing Harbour at Navabandar, Taluka Una, District Gir Somnath	Pre Implementation	Gujarat	295.85		







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Bringing opportunities and prosperity to the hinterland









### Bringing opportunities and prosperity to the hinterland

#### BENEFITS OF INLAND WATER TRANSPORT





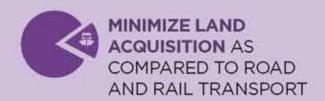
PROVIDE OPTIMAL MODAL MIX BY CONVERGING RIVER TRANSPORT WITH OTHER MODES



**EASE CONGESTION** ON ROAD AND **RAIL NETWORKS** 



CATER TO THE NEEDS OF THE GROWING **POPULATION** AND ECONOMY









Improving navigation capacity in the Varanasi - Haldia stretch of National Waterway-1 (Ganga), the implementation of the Jal Marg Vikas Project (JMVP) at the cost of Rs 5369 Cr approved by the Govt.

NW-1 development & operations will lead to employment generation to the tune of

46,000 direct and 84,000 indirect jobs.

Multimodal Terminals at Varanasi, Sahibganj and Haldia and Navigation Lock at Farakka are being developed at a cost of 1327 Cr

Varanasi terminal is expected to be completed by Nov 18



JAL MARG VIKAS PROJECT (JMVP) ESTIMATED TO COST

Rs. 5369°





# **RO-RO SERVICES**

#### People-friendly transportation

Ro-Ro terminals are being developed, at a cost of Rs. 300 Crore at Rajmahal -Manickchak (Jharkhand-West Bengal), Bakhtiyarpur-Hasanpur (Mahnar) (Bihar), Kahalgaon-Tintanga (Bihar) and Buxar-Sarai Kota (Bihar-Uttar Pradesh)

River Information System (RIS) from Haldia to Farakka is functional and from Farakka to Patna is ready to commence shortly

Major activities under JMVP are intermodal terminals, five pairs of Ro-Ro terminals, channel marking systems, integrated vessel repair & maintenance facilities, automated information techniques of Differential Global Positioning System, day and night navigation aids, slipways, bunkering facilities, river training and river conservancy







#### Bringing opportunities and prosperity to the hinterland

#### National Waterway-2

Regular movement of cargo on National Waterways-2 (river Brahmaputra) from Pandu to Dhubri/Hatsingimari flagged off on 29th December, 2017 at Majuli, Assam

Cargo transported

400 tonnes of cement

Distance covered

255 km

Benefit Saving of 1,50,000 tonne km of road transportation per trip

Ro-Ro service carrying vehicles, passengers and cargo from Dhubri to Hatsingimari on NW-2 is going on successfully from July, 2017







#### National Waterway-3

Kottapuram to Kollam (168 km) together with Champakara canal (14 km) and Udyogmandal canal (23 km) was declared as NW-3 in 1993

IWAI has constructed 9 terminals at Kottapuram, Aluva, Maradu, Vaikkom, Thanneermukkom, Thrikkunnapuzha Kayamkulam, Kolam & Alappuzha

Approximately 10 lakh tonnes of cargo is being moved on NW-3 per annum







# **Inland Water Transport**

#### **DEVELOPMENT OF 8 NEW WATERWAYS HAS BEEN TAKEN UP DURING 2017-18**

S.No.	National Waterway	State	Length (km)
1	Mahanadi - Luna River (NW-64)	Odisha	98
2	Amba River (NW-10)	Maharashtra	45
3	Revadanda Creek - Kundalika River (NW-85)	Maharashtra	31
4	Narmada River (NW-73)	Gujarat & Maharashtra	226
5	Tapi River (NW-100)	Gujarat	173
6	Ajoy (Ajay) River (NW-7)	West Bengal	19
7	Alappuzha- Changanassery Canal (NW-8)	Kerala	29
8	Kalyan-Thane-Mumbai Waterway, Vasai Creek And Ulhas River (NW- 53)	Maharashtra	145







Safer, Smarter, Sustainable

Sagarmala programme is also aimed at promoting coastal shipping, which is not only a substantially cheaper mode of transport compared to other modes of transport but also more environment friendly. Further, coastal shipping provides opportunities to Indian entrepreneurs, and smaller shipping operators as well as port/hinterland logistics opportunities to smaller companies catering to coastal/domestic trade, often in smaller ports/harbours.







# Safer, Smarter, Sustainable



Coastal Shipping in India has grown at a CAGR of

approx. 10%

between 2015 and 2018 compared to 2.2% between 2012 and 2015



Besides the present coastal shipping movement of 106.8 MTPA in FY2017-18, a potential of moving an additional

by 2025 has been identified under Sagarmala Programme









# Safer, Smarter, Sustainable

# Initiatives taken to promote Coastal Shipping



Cabotage has been relaxed for 5 years for specialized, foreign-flagged vessels such as RO-RO, RO-Pax, Hybrid RO-RO, Pure Car Carriers, Pure Car and Truck Carriers, LNG Vessels, Project Cargo Vessels



Cabotage has also been relaxed for EXIM Containers being transhipped in India



Cabotage has been relaxed for **Agricultural Commodities** 







#### Safer, Smarter, Sustainable

#### Infrastructure development for promoting coastal shipping

- 116 initiatives identified across 12 major ports to unlock 100MTPA capacity, out of which 86 initiatives have been implemented unlocking 80 MTPA
- Development of port infrastructure to enable coastal shipping. 50 projects (cost Rs. 2,482 Cr) identified for financial assistance under the Coastal Berth Scheme
- 31 projects (cost Rs. 1,413 Cr) sanctioned with financial assistance of Rs. 586 Cr and Rs. 334 Cr released
- 19 projects under various stage of development and process of approval. Funding under the scheme is available for construction of coastal berth, passenger jetty, breakwater, capital dredging and mechanization of coastal berth







### MoUs with Bangladesh



An agreement has been signed to promote coastal shipping between India and Bangladesh which will help in providing an alternative route for the transportation of EXIM cargo as well as domestic cargo to the North Eastern Region



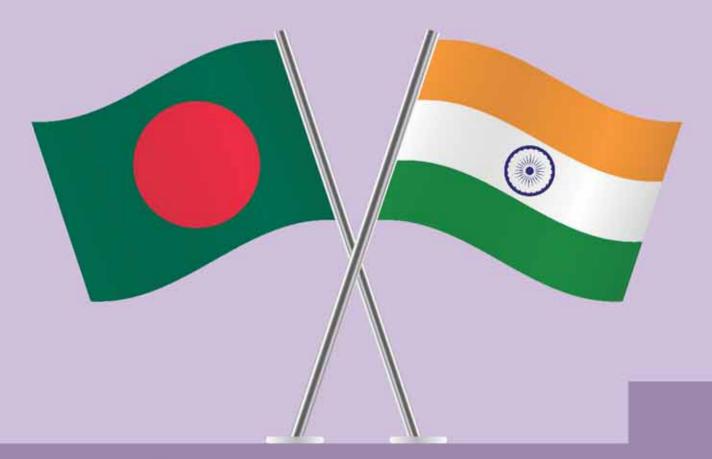
An MoU has been signed for the use of Chittagong and Mongla ports for the movement of goods to and from India.



An MoU has been signed that will allow Passenger and Cruise services on the Coastal and Protocol Routes between India & Bangladesh



An MoU has been signed for fairway development of the Ashuganj-Zakiganj stretch of Kushiyara River and Sirajgunj-Daikhowa stretch of the Jamuna River of Indo-Bangladesh Protocol to access North-Eastern Indian through Bangladesh







#### Benefits to North East

Enhance connectivity to the North-Eastern States of India through an alternative route via coastal movement.

Provide all-season fairway which will help in considerably lowering the logistics cost of cargo movement and reduce congestion through the Siliguri corridor.

Enhance trade, facilitate the movement of transit cargo and add to the economic development of both the countries.

Facilitate cross border tourism











PROJECTS

PROJECTS

















Cruise Shipping









# INNOVATION. RESEARCH. TECHNOLOGY.

State-of-the-art technical support for ports & maritime sector





# INNOVATION, RESEARCH, TECHNOLOGY,

# National Technology Centre for Ports, Waterways and Coasts (NTCPWC)



NTCPWC set up at IIT-Madras at an initial cost of 70.53 crore was inaugurated on 26 February 2018. It aims at providing innovative and research-based engineering solutions for various issues related to ports, waterways and coasts in the country.



NTCPWC to provide R&D and technical consultancy support to all Major Ports, IWAI and other related institutions. Poised to be self-sustainable in three years through national and global industry consultancy projects.







Center of Excellence in Maritime and Shipbuilding (CEMS)

A world-class Center of Excellence in Maritime and Ship Building (CEMS) has been set up with investment of 770 Cr by Ministry of Shipping in collaboration with Siemens and Indian Register of Shipping (IRS).







### Center of Excellence in Maritime and Shipbuilding (CEMS)

A global hub for quality skill development in the port and maritime sector. CEMS is to provide skilled manpower for India's ship building and heavy industry.

#### BENEFITS OF CEMS

End-to-end activities involved in Ship Design Manufacturing | Maintenance | Repairs and Operations MRO | Port Logistics | Dry Dock related to Ports

CEMS will provide skilled manpower for making vessels for inland waterways, ships, fishing boats and other ancillary manufacturing sectors.

The total strength of CEMS will be 10,512 students per year.









**Ship Building Operations** 

Cochin Ship Yard (CSL)

New Dry Dock

Cochin Shipyard Limited is building an additional dry dock

size 310x75x60 meter

The project to be completed within 30 months

This third dry dock will be the largest dry dock in CSL.

This enhanced capacity will enable the Yard to take up construction and repairs of larger vessels and offshore structures.







# **Ship Building Operations**

# Shipbuilding under the 'Make in India' initiative to boost Island Connectivity

 2 passenger-cum-cargo vessels of 1200 passengers and 2 passenger-cum-cargo vessel of 500 passengers capacity are being built by Cochin Shipyard at a cost of Rs. 1,291 Cr for the Andaman and Nicobar administration

# Hooghly Cochin Shipyard Limited (HCSL)

- · A new Joint Venture Company 'Hooghly Cochin Shipyard Limited' set up between CSL and Hooghly Dock & Port Engineers Ltd. (HDPEL), Kolkata
- The JV will concentrate on manufacturing the inland waterways transport vessel segment
- A new yard for the construction and repairs of vessels for Inland and Coastal segment will be set up









# **Ship Repair Operations**

Mumbai Port - Dry Dock MoU with CSL signed on 11 January 2018

Ship repair facility being expanded in Port Blair and Guwahati

Netaji Subhash Dock -Kolkata Port - MoU with CSL signed on 17 March 2018

International Ship Repair Facility (ISRF) at Cochin being developed at a cost of 970 Cr







International Ship Repair Facility (ISRF)

A contract worth RS. 970 Cr has been awarded for setting up ISRF, which is to be completed by May, 2020

ISRF is a greenfield ship repair yard being put up at Willingdon Island, Kochi on 42 acres of land leased from the Cochin Port Trust.

The facility will house a modern Ship Lift and Transfer System of 6,000 Tonnes capacity, which will cater to repairs of all types of small and medium sized vessels, including Navy and Coast Guard ships.









# INDIA CRUISING AHEAD

#### **Boost to Cruise Shipping**

World-class cruise terminal at Mumbai port

Cost Rs. 300 Cr to be completed by December, 2019

New cruise terminals at Mormugao Port and Chennai Port

Increase in the number of cruise vessels visiting the five major ports: (Mumbai, Mormugao, New Mangalore, Cochin & Chennai)

**95** 2013-14 **166** 2016-17

The number of cruise passengers has doubled

82,600 -> 1,91,835 2013-14 2016-17

STANDARD OPERATING PROCEDURE (SOP) FOR CRUISE VESSELS HAVE BEEN REVISED AND OPERATIONALIZED





# INDIA CRUISING AHEAD

### **Boost to Cruise Shipping**

#### **Promoting Cruise Shipping**

- E-Visa facility for cruise vessels at five major ports: Mumbai, Mormugao, New Mangalore, Cochin and Chennai. Cruise tourists arriving with e-visa exempted from biometric enrolment for a period of three years i.e. till 31 December 2020.
- Port charges reduced; all major ports to charge a uniform single rate of \$0.35 per GRT for first 12 hrs of stay
- · Facility for foreign flag passenger vessels to call at Indian ports without obtaining license from DGS extending from February, 2019 to February, 2024
- · Costa Neo Classica cruise ship has made Mumbai Port its home port for the season 2016-17 and 2017-18.







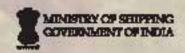
# INTERNATIONAL CO-OPERATION IN PORTS & SHIPPING SECTOR

India re-elected to International Maritime Organisation Council

An MoU with Republic of Korea was signed on mutual recognition of Certificates of competency of seafarers.

Contract for interim agreement of Chabahar Port signed on 17 February 2018 and documents exchanged in the presence of the Prime Minster of India and the President of Iran.







# IMPROVING SERVICES TO SEAFARERS BY DG SHIPPING

- E-Governance system being revamped to make DGS paperless and footfall free
- Online grievance-cum-feedback system started in June 2016 with a turnaround time of less than 3 days
- Requirement to issue annual trading license for Indian flag ships done away
- The powers for registration, survey and certification of Indian fishing vessels delegated to respective State Governments/Union Territories
- Relief to Indian ship owners by doing away with dry docking requirement
- Application, processing and issuance of the chartering permissions made online and e-payment enabled
- E-learning module launched to enable Indian seafarers to prepare for Certificate of Competency
- Students benefitting from Online Counseling, initiated by IMU from 2014-15
- Employment of Indian seafarers on ship increased from 1,08,446 in 2013 to 154349 in 2017



































