



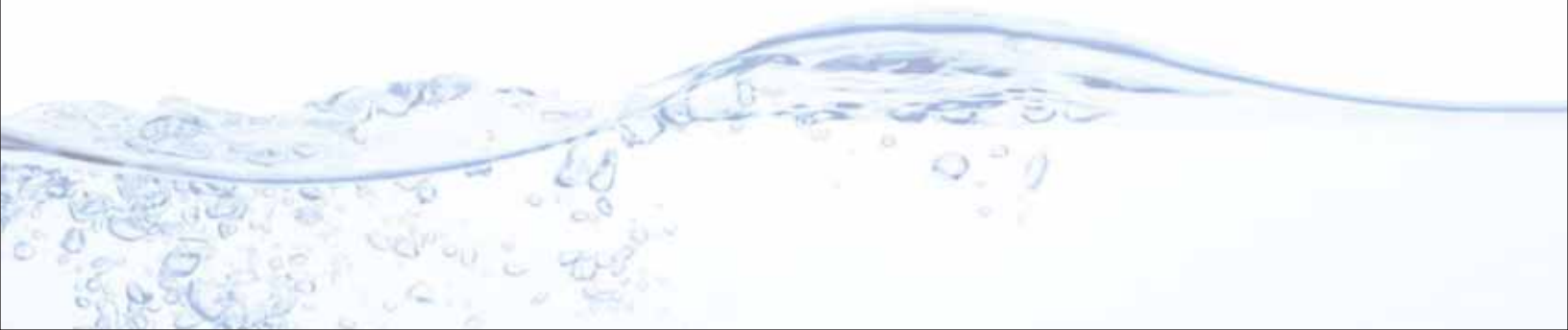

SAGARMALA
PORT-LED PROSPERITY





सत्यमेव जयते

Ministry of Shipping
Government of India



Abbreviations

GoAP	: Government of Andhra Pradesh	MMTPA	: Million Metric Tonne Per Annum
CCD	: Coastal Community Development	mn	: million
CEU	: Coastal Economic Unit	MoP&NG	: Ministry of Petroleum & Natural Gas
ChPT	: Chennai Port Trust	MoS	: Ministry of Shipping
CoPT	: Cochin Port Trust	MoRTH	: Ministry of Road, Transport & Highways
CSL	: Cochin Shipyard Limited	MLT	: Multi user Liquid Terminal
DFC	: Dedicated Freight Corridor	NMPT	: New Mangalore Port Trust
DIPP	: Department of Industrial Policy & Promotion	NHAI	: National Highways Authority of India
DPR	: Detailed Project Report	NW	: National Waterway
EPC	: Engineering Procurement Contract	POL	: Petroleum & Other Liquids
FSRU	: Floating Storage Regasification Unit	PPT	: Paradip Port Trust
FTWZ	: Free Trade Warehousing Zone	PPP	: Public Private Partnership
GOI	: Government of India	RFP	: Request for Proposal
GMB	: Gujarat Maritime Board	RFQ	: Request for Qualification
ICD	: Inland Container Depot	RO-RO	: Roll on – Roll Off
IPRCL	: Indian Port Rail Corporation Ltd	Ro-Pax	: Roll on – Roll Off – Passenger vessel
IWAI	: Inland Waterways Authority of India	RVNL	: Rail Vikas Nigam Ltd
JNPT	: Jawaharlal Nehru Port Trust	SDC	: Sagarmala Development Company
KPT	: Kandla Port Trust	SEZ	: Special Economic Zone
KoPT	: Kolkata Port Trust	SIPC	: Smart Industrial Port City
KPL	: Kamarajar Port Limited	TEFR	: Techno Economic Feasibility Report
LNG	: Liquefied Natural Gas	TNMB	: Tamil Nadu Maritime Board
MbPT	: Mumbai Port Trust	TIDCO	: Tamil Nadu Industrial Development Corporation
MCHP	: Mechanised Coal Handling Plant	USD	: United States Dollar
MgPT	: Mormugao Port Trust	VOCPT	: V. O. Chidambaranar Port Trust
MMB	: Maharashtra Maritime Board	VPT	: Visakhapatnam Port Trust



List of important projects under Sagarmala

A. Summary of important projects

S. No.	Theme	Project Type	# of Projects	Total Project Cost^ (USD Mn)
1	Port Modernisation Projects	Port Modernization - Major Ports	27	1,989
2	Coastal shipping of coal	Port Modernization - Major Ports	1	23
		Port Rail Connectivity Projects	3	846
		Inland Waterways Projects	4	1,187
		New Ports – Paradip Outer Harbour	1	643
3	Enhancing container movement	Expressways	7	12,692
		Port Rail projects	1	36
		Port Modernization - Major Ports	2	62
		Port Rail Connectivity Projects	3	969
4	Enhancing POL Movement	Port Modernization - Major Ports	3	186
5	New port development	New Port	2	2,437
6	Promoting shipbuilding & maritime sector	Maritime Cluster	2	146
		Shipbuilding	2	426
7	Development of port-based industrial parks and priority CEUs	CEU	4	1,615
		Port-based industrial parks	2	203
8	Coastal community development	Coastal Tourism*	1	-
		CCD Other Projects	1	36
	Total		66	23,496

^ 1 USD = INR 65 (assumed)

*Does not include cost of the projects considered

B. Summary of other important projects under Inland Waterways Sector

S. No.	Theme	# of Projects	Total Project Cost^ (USD Mn)
1	Inland waterways projects under tendering	11	47.69
2	Inland waterways projects shortlisted for DPR preparation*	24	
		45	47.69

*Does not include cost of the projects considered

I. Sagarmala – Details of Important Projects

1. Sagarmala – Port Modernisation Projects at Major Port



S. No.	Project Name	Year	Project Status	Project cost (USD Mn)	Proposed Implementing agency	Port Name
1	Oil terminal at Shalukhali (LPG and Chemicals) at Haldia	2016-17	Under Tendering	26.92	Port Trust	KoPT
2	Setting up of food grain import terminal at Cochin	2018-19	Concept	18.46	Port Trust	Cochin
3	Handling of Steel Cargo at OCT-Mumbai Port	2017-18	TEFR Under Preparation	15.38	Port Trust	Mumbai
4	Development of Multipurpose Berth (OT 1) outside the Dock Basin at Haldia	2016-17	Under Tendering	69.23	Port Trust	KoPT
5	Mechanisation of Fertiliser Handling Facility at Kandla	2016-17	DPR under preparation	30.77	Port Trust	Kandla
6	New Deep Draft Coal Import Berth at Paradip	2016-17	Under Tendering	103.08	Port Trust	Paradip



S. No.	Project Name	Year	Project Status	Project cost (USD Mn)	Proposed Implementing agency	Port Name
7	Additional liquid bulk terminal - Phase 1 - JNPT	2016-17	DPR under preparation	122.46	Port Trust	JNPT
8	Deepening and widening of JNPT and Mumbai Channel Phase -II	2016-17	Under Tendering	312.15	Port Trust	JNPT
9	Development of Marina at Victoria and Princess Dock - Mumbai	2018-19	Concept	30.77	Port Trust	Mumbai
10	Setting up of a Floating Storage & Regasification Unit (FSRU) - Mumbai	2018-19	DPR under preparation	421.54	Port Trust	Mumbai
11	Upgrading and modernisation of Cruise Terminal at BPX (Indira Dock) - Mumbai	2016-17	DPR under preparation	20.00	Port Trust	Mumbai
12	Development of Oil Jetty 8 for general oil cargo - Kandla	2017-18	TEFR Under Preparation	35.85	Port Trust	Kandla
13	Development of 14 Multipurpose Berth -Kandla	2016-17	Under Tendering	38.77	Port Trust	Kandla
14	Modification of existing Iron Ore Terminal to handle coal (SIOTL)	2016-17	Under implementation	33.85	Port Trust	KPL
15	Development of Dry Dock at Timber Pond/Boat basin at Chennai port or Development of Marina	2018-19	Concept	76.92	Port Trust	Chennai
16	Utilisation of Berth 8 and Backup area as Container Terminal at NMPT	2016-17	Under Tendering	46.15	Port Trust	Mangalore
17	Deep water break bulk berth adjacent to ore berth at NMPT	2018-19	Concept	23.08	Port Trust	Mangalore
18	Upgradation of Inner Harbour - NCB4 Container / Clean Cargo - Tuticorin	2016-17	TEFR Under Preparation	54.62	Port Trust	VOCPT
19	Upgradation of Inner Harbour - Shallow Berths - Tuticorin	2016-17	DPR under preparation	16.46	Port Trust	VOCPT

S. No.	Project Name	Year	Project Status	Project cost (USD Mn)	Proposed Implementing agency	Port Name
20	Upgradation of Inner Harbour Tuticorin - Channel and Basin Deepening for Fully Loaded Panamax Ships	2016-17	Concept	184.62	Port Trust	VOCPT
21	Development of 2 berths with connecting flyover for Indian Navy and Coastguard at Vasco Bay - Mormugao	2018-19	Concept	76.92	Port Trust	Mormugao
22	Mechanization of existing berth EQ-7 to handle finished fertilizers - Vizag	2016-17	Under Tendering	42.15	Port Trust	VPT
23	Construction of Central Truck Parking Terminal at JNPT	2016-17	TEFR Under Preparation	30.77	Port Trust	JNPT
24	Development of 16th Multipurpose Berth -Kandla	2016-17	Under Tendering	40.00	Port Trust	Kandla
25	Upgradation of Inner Harbour - NCB3 - Tuticorin	2016-17	TEFR Under Preparation	64.62	Port Trust	VOCPT
26	Cryogenic Warehousing	2018-19	Concept	23.08	Port Trust	Cochin
27	Conversion of Oil jetty to handle coal at Tuticorin Port	2017-18	Concept	30.77	Port Trust	VOCPT
				1989.37		

2. Sagarmala – Coastal Shipping of Coal



S. No.	Project Name	Year	Project Status	Project cost (USD Mn)	Proposed Implementing agency	Project Type
28	Heavy Haul railways corridor from Salegaon to Paradip port	2018-19	DPR under preparation	461.54	Indian Railways	Port Rail Connectivity Projects
29	Develop NW5 to augment capacity from Talcher to Paradip	2017-18	Concept	769.23	IWAI	Inland Waterways Projects
30	Development of IWT Terminal at Paradip Port	2016-17	DPR under preparation	30.77	Paradip Port Trust	Inland Waterways Projects
31	Development of Outer harbour at Paradip port	2018-19	DPR under preparation	642.92	Paradip Port Trust	New Ports
32	Upgradation of Existing Coal Jetty (CJ1 & CJ2) at Tuticorin	2016-17	DPR under preparation	23.08	VOCPT	Port Modernization - Major Ports
33	Providing railway connectivity from Tuticorin port to the power plants	2016-17	TEFR Under Preparation	46.15	IPRCL	Port Rail Connectivity Projects
34	Rail evacuation from port to Hospet and Bellary (Hubli - Ankola link)	2016-17	DPR under preparation	338.46	Indian Railways	Port Rail Connectivity Projects
35	Develop NW2 for inland waterway movement	2018-19	Concept	153.85	IWAI	Inland Waterways Projects
36	Develop NW4 for inland waterway movement	2018-19	Concept	233.08	IWAI	Inland Waterways Projects
				2699.07		

3. Sagarmala – Enhancing Container movement



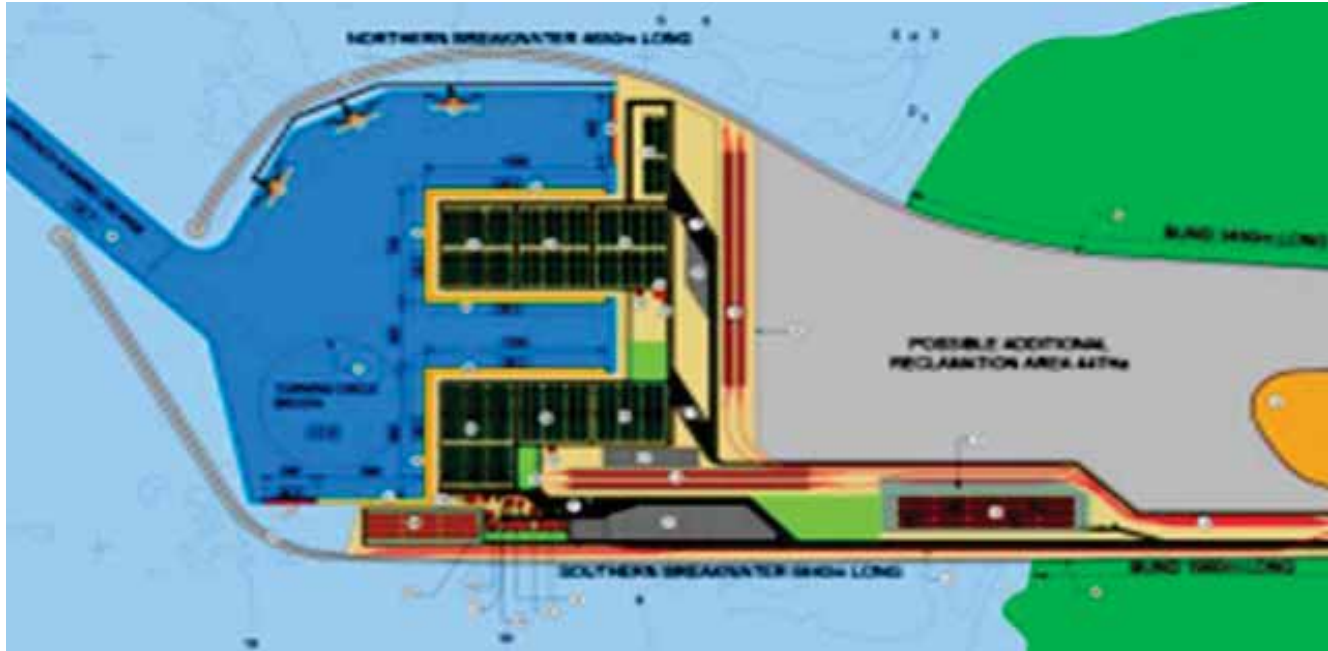
S. No.	Project Name	Year	Project Status	Project cost (USD Mn)	Proposed Implementing agency	Project Type
37	Expressway from Ahmedabad to JNPT	2018-19	Concept	2,769.23	NHAI	Expressways Projects
38	Expressway from Dighi Industrial Cluster (Pune) to JNPT	2018-19	Concept	692.31	NHAI	Expressways Projects
39	Expressway from Sanathnagar industrial cluster (Hyderabad) to JNPT	2018-19	Concept	3,384.62	NHAI	Expressways Projects
40	Expressway from Sarkhej (Ahmedabad) to Mundra	2018-19	Concept	1,538.46	NHAI	Expressways Projects
41	Expressway from Sarkhej (Ahmedabad) to Pipavav	2018-19	Concept	1,384.62	NHAI	Expressways Projects
42	Expressway from Whitefield industrial cluster (Bangalore) to Chennai	2018-19	Concept	1,538.46	NHAI	Expressways Projects
43	Restructuring of JNPT Yard for Optimal Yard Utilisation	2016-17	DPR under preparation	30.77	JNPT	Port Modernization - Major Ports
44	Integrated Common Rail Yard at JNPT	2016-17	DPR under preparation	30.77	JNPT	Port Modernization - Major Ports
45	Connection of western DFC to Hazira	2018-19	Concept	46.15	Indian Railways	Port Rail Connectivity Projects
46	Connection of western DFC to Pipavav	2018-19	Concept	384.62	Indian Railways	Port Rail Connectivity Projects
47	Connection of western DFC to Mundra	2018-19	Concept	538.46	Indian Railways	Port Rail Connectivity Projects
48	Expressway from Panagarh (Durgapur) to Haldia	2018-19	Concept	1,384.62	NHAI	Expressway Project
49	Upgradation and modifications of ICD yards at the JNPT Port	2016-17	TEFR under preparation	36.46	IPRCL	Port Rail Project
				13,759.55		

4. Sagarmala – Enhancing POL Movement



S.No.	Project Name	Year	Project Status	Project cost (USD Mn)	Proposed Implementing agency	Project Type
50	Multi-User Liquid Terminal-II at Ennore	2016-17	DPR under preparation	49.23	KPL	Port Modernization – Major Ports
51	LPG Terminal at South jetty in Paradip	2017-18	DPR under preparation	106.15	Paradip Port Trust	Port Modernization – Major Ports
52	Creation of LNG facilities at Haldia Port	2016-17	Under Tendering	30.77	Kolkata Port Trust	Port Modernization – Major Ports
				186.15		

5. Sagarmala – New Port Development



S.No.	Project Name	Year	Project Status	Project cost (USD Mn)	Proposed Implementing agency	Project Type
53	New Port at VadHAVan	2018-19	DPR under preparation	1,425.69	JN Port Trust	New Port
54	New Port at Enayam serving as a transshipment hub	2018-19	DPR under preparation	1,011.54	VOC Port Trust	New Port
				2865.38		

6. Sagarmala – Promoting Shipbuilding and Maritime Sector



S.No.	Project Name	Year	Project Status	Project cost (USD Mn)	Proposed Implementing agency	Project Type
55	Construction of dry dock at Cochin Shipyard	2016-17	DPR under preparation	276.92	CSL	Shipbuilding
56	International Ship repair facility - Cochin Shipyard	2016-17	DPR under preparation	149.23	CSL	Shipbuilding
57	Maritime cluster in Gujarat	2018-19	Concept	69.23	GMB	Maritime Cluster
58	Maritime cluster in Ennore	2018-19	Concept	76.92	TIDCO	Maritime Cluster
				572.31		

7. Sagarmala – Development of Port based Industrial Parks and Priority CEUs



S.No.	Project Name	Year	Project Status	Project cost (USD Mn)	Proposed Implementing agency	Project Type
59	SEZ Phase – EPC Contract for infrastructure development - JNPT	2016-17	DPR under preparation	72.15	JNPT	Port-based Industrial Park
60	FTWZ - Ennore	2016-17	Under Tendering	130.77	KPL	Port-based Industrial Park
61	Development of CEU at Amravati	2016-17	DPR under preparation	461.54	Govt. of AP	CEU
62	Development of CEU at JNPT	2017-18	Concept	384.62	JNPT	CEU
63	Development of CEU at Ennore	2018-19	Concept	384.62	DIPP	CEU
64	Development of CEU at Kandla	2017-18	Concept	384.62	Kandla Port Trust	CEU
				1,818.3		

8. Sagarmala - Coastal Community Development



S.No.	Project Name	Year	Project Status	Project cost (USD Mn)	Proposed Implementing agency	Project Type
65	Under sea water tunnel/Gallery at Beyt Dwarka to see the marine life and also mythological Dwarka	2016-17	Concept			Coastal Tourism
66	Dredging of Ro – Pax Ferry Services between Gogha and Dahej in Gulf of Cambay	2016-17	Under Tendering	36	GMB	Other CCD Projects
				36		



II.Sagarmala – Investment Opportunities in Inland waterway sector

1. Inland waterway projects which are under tendering

S.No.	Project Name	Year	Project Status	Project cost (USD Mn)	Proposed Implementing agency	Project Type
1	National Waterways 16 on river Barak	2016-17	Under tendering	12.77	IWAI	Inland waterways project
2	National Waterways 58 on river Kosi	2016-17	Under tendering	5.92	IWAI	Inland waterways project
3	National Waterways 68 on river Mandovi in Goa	2016-17	Under tendering		IWAI	Inland waterways project
4	National Waterways 111 on river Zuari in Goa	2016-17	Under tendering		IWAI	Inland waterways project
5	National Waterways 27 on Cumbarjua canal in Goa	2016-17	Under tendering		IWAI	Inland waterways project
6	National Waterways 97 in Sunderbans in Bengal	2016-17	Under tendering		IWAI	Inland waterways project
7	National Waterways 37 on river Gandak	2016-17	Under tendering	8.77	IWAI	Inland waterways project
8	National Waterways 40 on river Ghagra	2016-17	Under tendering	20.31	IWAI	Inland waterways project
9	Equip and operate brownfield facility at Garden Reach Terminal, Kolkata	2016-17	Under tendering		IWAI	Inland waterways project
10	Equip and operate brownfield facility at Gaihat Terminal, Patna	2016-17	Under tendering		IWAI	Inland waterways project
11	Jal Marg Vikas Project on NW 1 to enable movement of 1500-2000 DWT vessels from Haldia to Varanasi	2016-17	Under tendering	47.69	IWAI	Inland waterways project



2. Inland waterway projects which are at shortlisted for DPR preparation

S.N	NW#	River/ Canal	Length (Km)	State
1	7	Ajoy River	15	WB
2	8	Alappuzha- Changanassery Canal	87.9	Kerala
3	9	Alappuzha- Kottayam – Athirampuzha Canal		
4	59	Kottayam-Vaikom Canal		
5	10	Amba River	45	Maharashtra
6	14	Baitarni River	49	Odisha
7	25	Chapora river	25	Goa
8	28	Dabhol Creek - Vashishti River	45	Maharashtra
9	43	Gurupur River	10	Karnataka
10	44	Ichamati River	64	WB
11	51	Kabini River	23	Karnataka
12	52	Kali River	54	Karnataka
13	64	Mahanadi & Luna River	100	Odisha
14	66	Mahi River	248	Gujarat
15	71	Mapusa - Moide River	27	Goa
16	73	Narmada River	227	Gujarat
17	74	Nethravati river	30	Karnataka
18	85	Revadanda Creek – Kundalika River	31	Maharashtra
19	86	Rupnarayan River	40	WB
20	89	Savitri river	46	Maharashtra
21	90	Sharavati river	29	Karnataka
22	95	Subansiri River	111	Assam
23	96	Subarnrekha River	25	Jhar, Odi., WB
24	100	Tapi River	170	Gujarat
		Total Length	1502	



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