CHITTAGONG PORT AUTHORITY

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OVER VIEW 2021

CHITTAGONG PORT AUTHORITY CHATTOGRAM

Over view 2021

CHITTAGONG PORT AUTHORITY
CHATTOGRAM

Website: www.cpa.gov.bd

1. HISTORICAL BACKGROUND

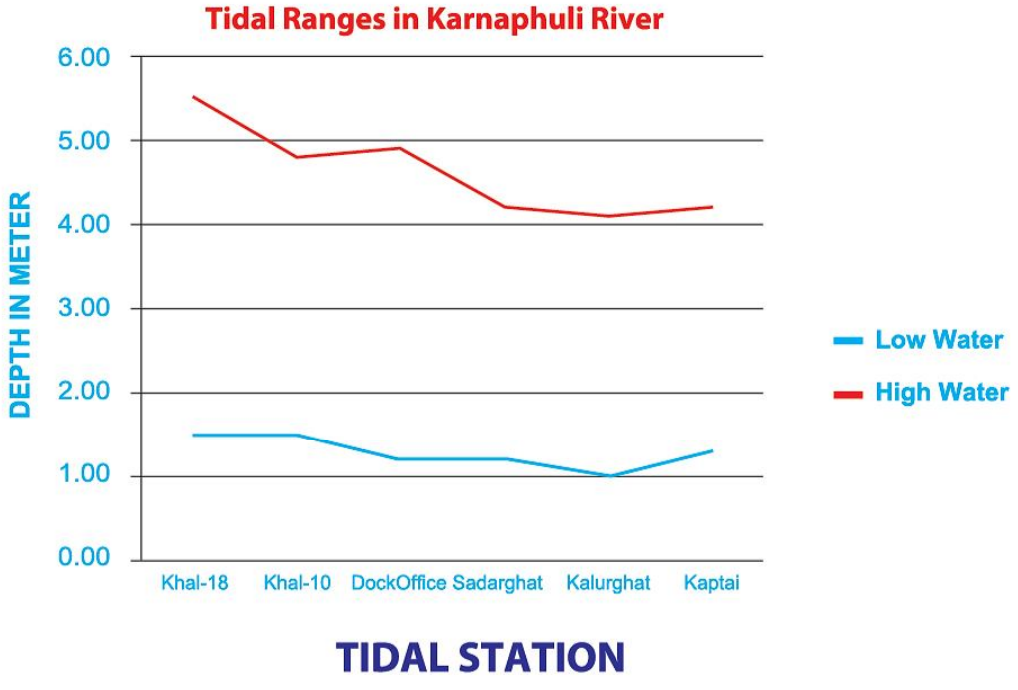
The history of Chittagong Port can be traced back to the 4th century BC. During the 9th to15th century AD, Chattogram was known as 'SHETGANG' to early European mariners. In the 16th century, Chattogram was known as 'PORTE GRANDE'. The port was established at its present location in 1887 under the British Law.

2. LOCATION

Chittagong port is situated in the estuary of the river Karnaphuli; being around 11 km from the Bay of Bengal.

3. NAVIGATIONAL INFORMATION

Maximum Permissible Draught of vessel ranges from 8.50m. to 9.50m.
Online Tidal data display :
Khal no. 10 :
https://stormcentral.waterlog.com/public/cpahydrography1/
Kalurghat : https://stormcentral.waterlog.com/public/cpahydrography2
Rezukhal : https://stormcentral.waterlog.com/public/cpahydrography3
Bay Terminal : https://stormcentral.waterlog.com/public/cpahydrography4
LOA : Maximum permissible LOA of a vessel is 190 meters.



Tidal Range : Tides are important for navigation as it determines the possibility of crossing the shallow area between Kutubdia points and the Karnaphuli entrance and bars within the Port Limit. Tides are semi diurnal with prominent diurnal effect. The approx. tidal range is between 2.0 and 5.5m.

Pilotage : Pilotage is compulsory as per CPA Law.

Radio communication : Port Radio Control Room maintains watch on VHF over Channel 6, 12 & 16 round the clock and over 2182 KHZ/SSB transceiver.

Anchorage : Anchorage area is divided to "A" "B" and "C". In addition a special anchorage area has been established for vessel awaiting employment.

Night Navigation : Inward and outward movement of the ships are limited to 170 metre length over all (LOA).

4. ADMINISTRATION

Chittagong Port passes through different model of port management. It started its journey as port commissioner, then turned into port trust and from 1976 it became Chittagong Port Authority under law.

5. GLOBAL POSITION OF CONTAINER PAST

Chittagong Port entered in 100 container port list with 98th position in 2009; after 11 years in 2020 it is ranked 58th busiest container port in the world.

FACILITIES

Jetties And Moorings For Ocean-going Vessels :

Berths owned and operated By CPA

General Cargo Berths	06
Container Berths	13

Repair Berths

Dry Dock Jetties	02

Mooring Berths

River Moorings	05

Specialised Berths for Bulk handling :

Dolphin Oil Jetty (for POL)	03
Grain Silo Jetty	01
Cement Clinker Jetty	01
TSP Jetty	01
CUFL Jetty	01
KAFCO Urea Jetty	01
Ammonia Jetty	01
Total	35

Sadar Ghat

Jetty Berths (for POL)	05

CARGO STORAGE SPACE (Break-bulk)

Protected Area	Nos.	Sq. Metres
Transit sheds 1-9 & 12-13	11	64364.70
Warehouses D, F, P, O	4	20712.41
Car Sheds (P Shed & F Shed)	1	8696.63
Open Dumps	-	90,000

For Inland Coasters & Vessels :

Jetty Berths (for POL)	01
Concrete Berth (for Grain handling)	01
Pontoon Berths (for POL)	03
Pontoon Berth (for Cement)	01
Single Point Moorings	14
Total	**20**

Outside Protected Area :

Warehouses	6	25179.36
Open Dumps	-	2,00,000

Food Department (Grain Silo), TSP Complex, Cement Clinker Grinding Company and different oil companies have their own storage facilities (covered and open) adjacent to their respective berths.

General Cargo Handling Equipment

Type of Equipment	Capacity (Ton)	Nos.
Mobile Crane	10 - 50 ton	38
Forklift Truck	10 - 20 ton	09
Forklift Truck	03 - 05 ton	119
Forklift- Electric (Low Must)	1.5 ton	04
Industrial Tractor	25 ton	11
Heavy Trailer	25 ton	05
Light Trailer	06 ton	30
Tele Handler	10 ton	04
Car Carrier	--	02

Container Handling Facilities

Holding Capacity (GCB+CCT+NCT+NCY+SCY+NOY) = 95,500.00 TEUs	
Yards	22 Nos.
Container Freight Stations at GCB (05 Nos.)	45064 Sq.m
Container storage yards at GCB	4,00,000.00 Sq.m
CFS at CCT	13671 Sq.m
Container Storage Yard at CCT	150000 Sq.m
Container Storage Yard at NCT	2,90,000.00 Sq.m
Container Storage Yard at NCY	57,000.00 Sq.m
Container Storage yard at SCY	60,500.00 Sq.m
Container Storage yard at NOY	1,19,000.00 Sq.m
Railway Container Siding	550 m
Reefer Points	900 (440 volts) points
Standby Generator-14 MW (2x7)	14 MW (2x7)
Fire Brigade	1 unit

LIST OF CARGO AND CONTAINER HANDLING EQUIPMENT
(A) Container Handling Equipment (upto 09.03.2021)

Type of Equipment	Capacity (Ton)	Nos.
Quay Gantry Crane	40	14
Rubber Tyred Gantry Crane	40	41
Mobile Harbour Crane	84	05
Rail Mounted Yard Gantry Crane	40	01
Straddle Carrier 4 High	40	44
Straddle Carrier 2 High	40	01
Reach Stacker	45	17
Forklift (Spreader)	16	04
Reach Stacker	07	09
Container Mover	32	08
	Total	144

(B) Cargo Handling Equipment (upto 09.03.2021)

Type of Equipment	Capacity (Ton)	Nos.
Mobile Crane	50	04
Mobile Crane	30	02
Mobile Crane	20	09
Mobile Crane	10	13
Forklift	20	04
Forklift	10	16
Forklift (High Mast)	5	10
Forklift (Low Mast)	5	30
Forklift (Low Mast)	3	78
Forklift Elec. (Low Mast)	1.5	04
Tractor	25	11
Heavy Trailer	25	05
Light Trailer	06	30

Car Carrier (6 units)	-	02
Tele Handler	-	04
Pipe Handler	-	01
Automatic Bagging Machine	-	02
Pneumatic Conveyor	-	01
Variable Reach Truck	16	03
	Total	229

EQUIPMENT BEING PROCURED UNDER REVENUE BUDGET (2018-2019)

Type of Equipment	Capacity (Ton)	Nos.
Quay Gantry Crane	40	02
Mobile Harbour Crane	84	02
Rubber Tyred Gantry Crane	40	09
Straddle Carrier (04 High)	40	09
Variable Reach Truck	16	03

INLAND CONTAINER DEPOT (ICD)

An Inland Container Depot (ICD) at Dhaka, Kamalapur is in operation since 1987 with an annual handling capacity of 90,000 TEUs. At present two Container Trains run daily each way between Chittagong Port and Dhaka ICD.

Facilities available :	
Container holding capacity	4067 TEUs
Yard Area	136954 Sq.m
Container Freight Station (CFS)	6508 Sq.m
Weigh-bridge	2 in Two Gates
Equipment Reach Stacker:	2 Nos. (45 ton)
Forklift :	4 Nos (42 ton)
Reach Stacker:	1 Nos. (7 ton)
Low Mast Forklift :	6 Nos. (3 ton)
Tractor Trailors :	08 Nos
Railway Wagons for Container Transportation	550 Nos
Railway Terminal (length of tracks)	1097 m
Fire Brigade	1 Unit

ICT PANGAON

Container Holding Capacity	3500 TEUs
Yard Area	55000 sq. m.
Container Freight Station (CFS)	5815 sq. m.
Weigh-bridge	1 No
Equipment	
Mobile harbour Crane	1 No
Straddle Carrier	2 Nos
Fork Lift	9 Nos
Tractor Traillors	2 Nos
Cargo Crane	3 Nos

DREDGER

The CPA has a trailing suction hopper dredger (MV KHANAK) to maintain navigability in its area. The dredger has a hopper capacity of 2,500 cubic meters.

TUGS : The CPA has a fleet of Tugs up to a maximum bollard pull of 60 Tons.

ENVIRONMENT FACILITIES

One oily waste reception & one solid waste reception vessel is available for pollution control service. In addition some of the tugs are equipped with pollution control facilities.

FIRE FIGHTING ARRANGEMENTS

The CPA maintains a full fledged Fire Fighting Unit within the jetty premises with modern equipments to combat any incidents of fire. The sheds, warehouses and the yards are provided with sprinklers, hydrant system with different types of fire extinguishers and fire buckets. Facilities are also available for combating marine fire with fire fighting vessels.

SECURITY

CPA is complying with International Ship and Port Facility Security Code (ISPS Code) since 2004 for enhancing safety and security

within Port Limit in a manner as desired by the code.

WEIGH-BRIDGE

There are 7 (seven) computerized road vehicle weigh-bridges (30T-100T) at different jetty gates and North Container Yard (NCY). And one computerized railway wagon weigh-bridge (100T) located at the Railway Transit Yard. There are also 3 nos of computerized truck weighing scales (100T) installed at two stage gate under custom over bridge at GCB area.

Vessel Traffic Management Information System (VTMIS) :

Chittagong Port and its anchorage areas are covered by modern VTMIS to ensure maritime safety and safety of navigation. Moreover, Matarbari Radio Control Station has been established to control & monitor Maritime Traffic visiting Matarbari.

SIMULATOR

CPATI has installed a combined simulator to train the container handling equipment operators and thus create a pool of skilled and efficient equipment operators. Training on combined/integrated operations of Straddle Carrier (SC), Rubber Tyred Gantry Crane (RTG) and Ship to Shore Gantry Crane (STS) are being provided through the simulator program. To cater for the demand of national and internationl market to develop skilled manpower, provisions have been made to extend the simulator training facilities to the public and private organizations.

6. STATISTICS

6.1 MAJOR IMPORTS & EXPORTS

Import : Food grain, Cement clinker, Sugar, Fertilizer, General cargo, Iron Materials, Cotton, Chemicals, Coal, Edible oil, POL etc.

Export : Ready Made Garments, Knitwear, Fertilizer, Jute & Jute Products, Hides and Skins, Tea, Light Engineering products, Pharmaceutical Products, Naphtha, Molasses, Frozen goods, etc.

6.1 Import (In Metric Tons)

F/YEARS	FOOD GRAIN	C/CLINK	FERT.	COAL	SALT	SUGAR	E.OIL	P.OIL	BULK OTHERS	BULK TOTAL	CONT. IMPORT	TOTAL IMPORT
2016-17	5047751	19628181	1416115	1364436	551956	2134908	1996578	7027510	16542879	55710314	17408701	73119015
2017-18	6783355	21492163	1777825	1527312	778178	2468556	2508948	7788517	21265228	66390082	19385567	85775649
2018-19	5661310	24826699	1679034	2947457	365434	2313247	2753222	7628657	23636386	71811446	19424584	91236030
2019-20	6767440	24049822	1585682	4303434	431120	2159393	2904818	6785871	26179806	75167386	19599932	94767318
2020-21	5988934	33297380	1432787	3607019	341649	2344724	2122180	7640904	27456329	84231906	22003438	106235344

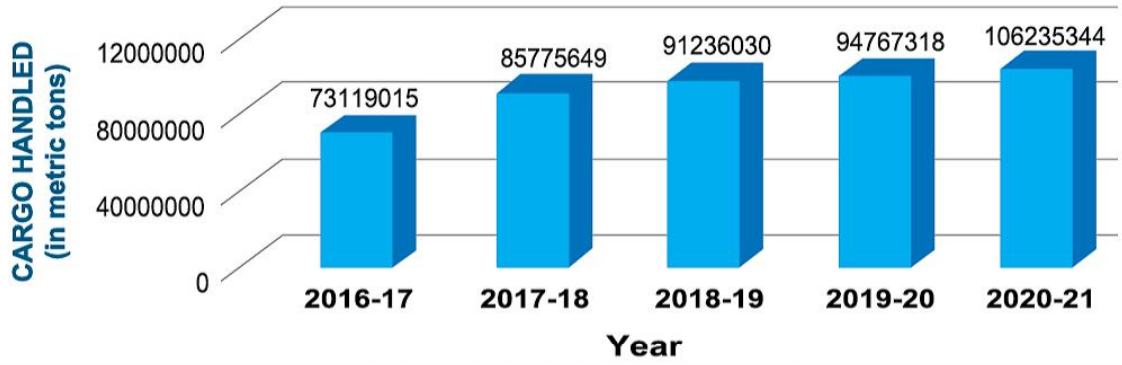
Export (In Metric Tons)

F/YEARS	JUTE	J/GOODS	LEATHER	TEA	GARMENTS	F/GOODS	CONTAI, OTHERS	TOTAL CONT	UREA/FERT.	AMMONIA	NAPTHA	BULK OTHERS	BULK TOTAL	TOTAL EXPORT
2016-17	212353	821677	30644	0	2973724	121893	2389377	6549668	0	15000	104954	193882	313836	6863504
2017-18	206480	722800	35912	0	3422571	110555	2532536	7030854	0	39083	18500	59142	116725	7147579
2018-19	153828	551418	32273	43	3514113	111008	2423553	6786236	0	41249	32890	144250	218389	7004625
2019-20	156901	477888	27076	165	2899691	103509	2860718	6525948	0	69125	0	202881	272006	6797954
2020-21	183045	489051	29123	18	3429006	151151	2787054	7068448	19500	78950	18800	308331	425581	7494029

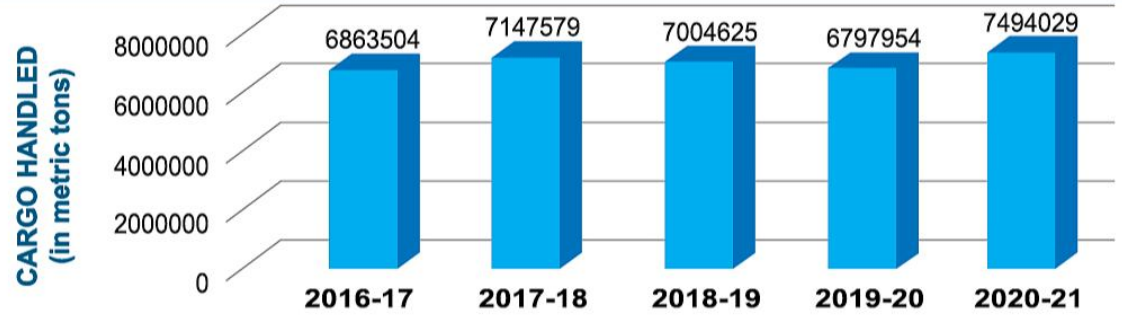
6.2. CARGO HANDLED (in metric tons)

F/Year	Grand Total (In M/T)		
	Import	Export	Total
2016-2017	73119015	6863504	79982519
2017-2018	85775649	7147579	92923228
2018-2019	91236030	7004625	98240655
2019-2020	94767318	6797954	101565272
2020-2021	106235344	7494029	113729373

Cargo Handled (IMPORT)



Cargo Handled (EXPORT)

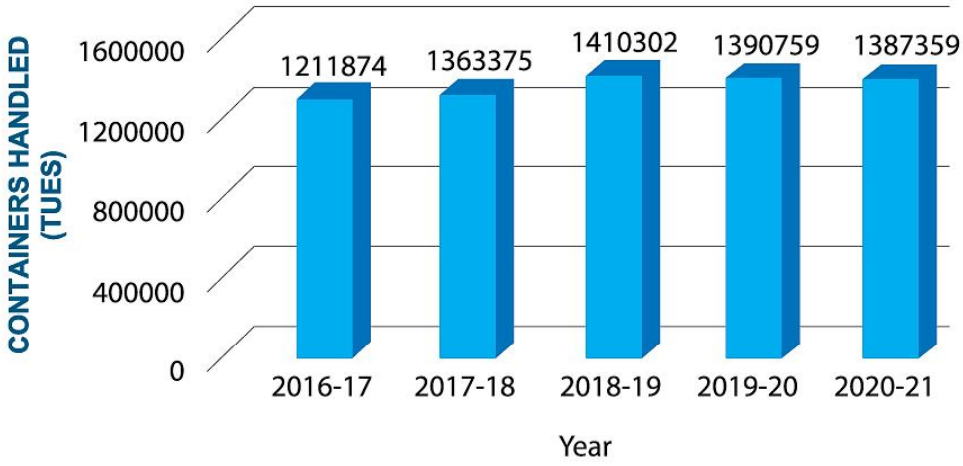


6.3 CONTAINERS HANDLED

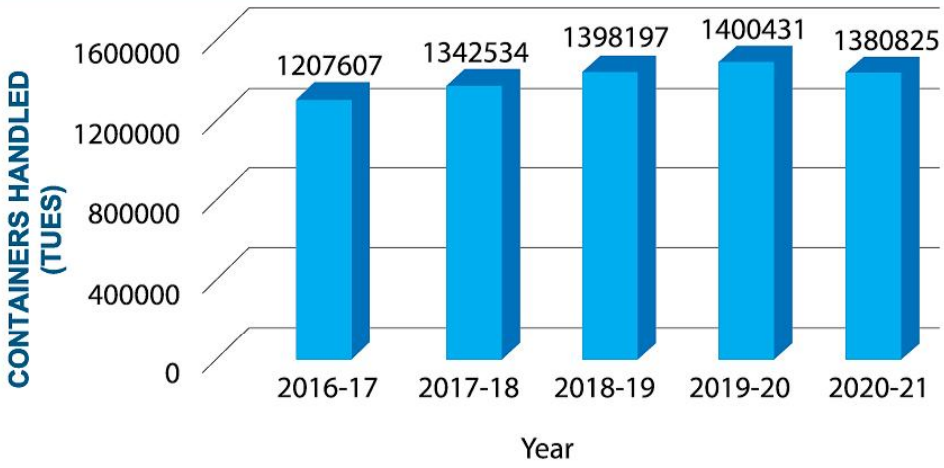
FISCAL YEAR	CHITTAGONG PORT					
	IMPORT		EXPORT		TOTAL	
	TUEs	TONS	TUEs	TONS	TUEs	TONS
2016-17	1211874	17084610	1207607	6395923	2419481	23480533
2017-18	1363375	19089447	1342534	6880740	2705909	25970187
2018-19	1410302	18890034	1398197	6628017	2808499	25518051
2019-20	1390759	19073840	1400431	6373139	2791190	25446979
2020-21	1387359	18766002	1380825	6942483	2768184	25708485

FISCAL YEAR	DHAKA ICD					
	IMPORT		EXPORT		TOTAL	
	TUEs	TONS	TUEs	TONS	TUEs	TONS
2016-17	36243	324091	36755	153745	72998	477836
2017-18	37026	296120	37715	150114	74741	446234
2018-19	44301	363383	44549	151862	88850	515245
2019-20	44119	344964	44671	144160	88790	489124
2020-21	45988	381395	45680	122780	91668	504175

Container Handled Chittagong Port (IMPORT)



Container Handled Chittagong Port (EXPORT)



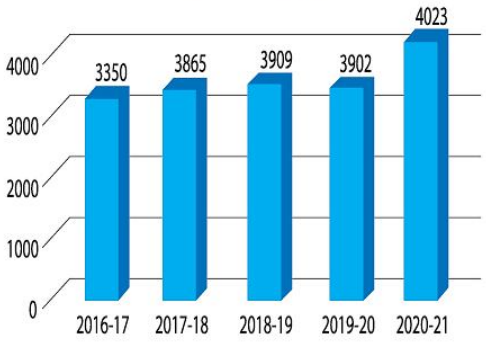
6.3.1 CONTAINERS HANDLED AT DHAKA ICT (PANGAON)

FISCAL YEAR	Inland Container Terminal Pangaon (ICT)					
	IMPORT		EXPORT		TOTAL	
	TUEs	TONS	TEUs	TONS	TEUs	TONs
2016-17	6345	79400	5652	0	11997	79400
2017-18	14532	176832	14172	2180	28704	179012
2018-19	10689	171167	10985	6357	21674	177524
2019-20	13047	181128	12364	8649	25411	189777
2020-21	12337	203009	12401	3185	24738	206194

6.4 VESSELS HANDLED

F/YEAR	NO. OF INCOMING VESSELS	NO. OF OUTGOING VESSELS
2016-17	3350	3092
2017-18	3865	3664
2018-19	3909	3699
2019-20	3902	3764
2020-21	4023	4062

Vessels Handled (Incoming)



Vessels Handled (Outgoing)

6.5 CARGO HANDLED INCLUDING INLAND, ICD & ICT (in metric tons)

FISCAL YEAR	IMPORT (TONS)	EXPORT (TONS)	INLAND (TONS)	ICD (TONS)	ICT (TONS)	GRAND TOTAL (TONS)	GROWTH (%)
2016-17	66384885	6709759	6330639	477836	79400	79982519	12.40
2017-18	77873615	6995285	7429082	446234	179012	92923228	16.18
2018-19	82939731	6846406	7761749	515245	177524	98240655	5.72
2019-20	87275248	6645145	6965978	489124	189777	101565272	3.38
2020-21	99240759	7368064	6410181	504175	206194	113729373	11.98

7. CONCESSION ON EXPORT CARGO

Priority berth is allowed to 100% export vessels.

For efficient handling of export through container, 100% stuffing is being done in private depot located near the port.

Seven days free time for export cargo/container is allowed as against four days free time on import cargo/container.

Documentation procedure simplified through introduction of one stop service centre.

8. OTHER INFORMATION

Handling Capacity : At present Port is handling over 41 milion tons of cargo per year.

Repair : Chattogram Dry Dock can repair vessels up to 16,500 DWT and there are also a number of other private repair yards in and around port installation.

Airport : Hazrat Shah Amanat International Airport is 8 km from the port.

Chattogram Export Processing Zone : Located 3 km away from the port.

Korean Export Processing Zone : Located on the opposite bank of the river Karnaphuli.

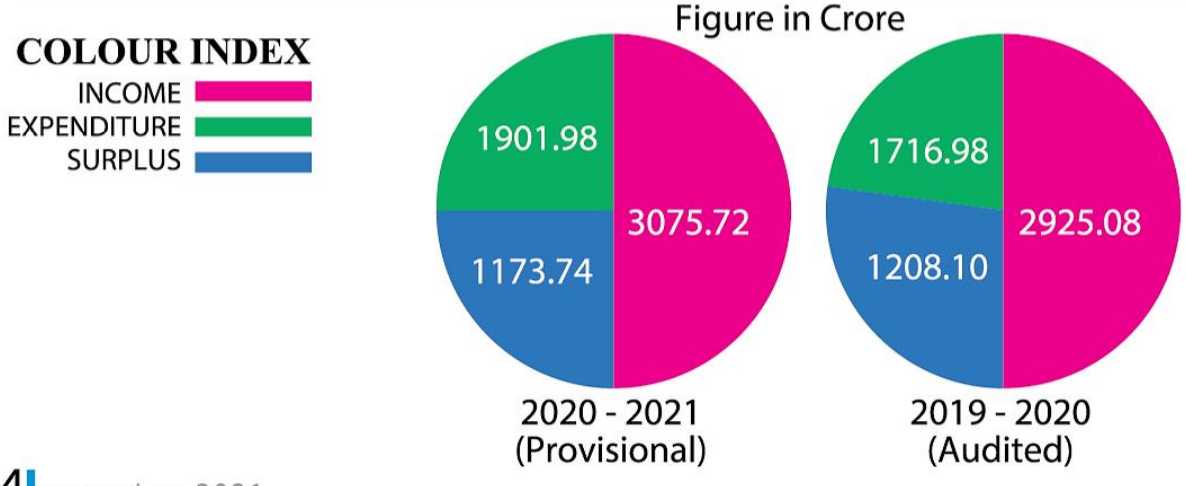
Karnaphuli Export Processing Zone : Located 4 km away from the port.

Hinterland Transportation : Port is connected with the hinterland by Road, Rail & River.

One Stop Service : All documentation earlier done at different points regarding Container and General Cargo Clearance has now been brought at one point with on-line banking facilities.

Car storage facilities : Available space for 6,150 unit Vehicle including New Car Shed. CPA is a regular member of Japan based International Association of Ports and Harbours (IAPH).

9. REVENUE INCOME & EXPENDITURE



10. DEVELOPMENT PLAN

A. RECENTLY COMPLETED PROJECTS :

- Strategic Master Plan for Chittagong Port.
- Chittagong Port Trade Facilitation Project (CPA Component).
- Construction of Back-up Facilities Behind Berth # 4 and 5 of New-mooring Container Terminal.
- Installation of Vessel Traffic Management Information System (VTMIS).
- Procurement of One high Power Tug (4500 BHP).
- Procurement of One Sea Going Water Supply Vessel.
- Procurement of 29 Nos. Container and Cargo Handling Equipment.
- Procurement of Three Reconditioned Container Vessels to ply Chattogram-Pangaon Route.
- Installation of Surface Water Treatment Plant.
- Procurement of one Modern Survey Boat with Multibeam Echo-Sounder.
- Procurement of Equipment for New Mooring Container Terminal (NCT).
- Construction of overflow yard at new-mooring colony.
- Construction of 2nd overflow yard at new-mooring colony.
- Procurement of two mobile harbour crane.
- Construction of CPA Hospital Complex.

B. ON GOING PROJECTS :

- Shifting and Re-construction of Services Jetty located near Dock

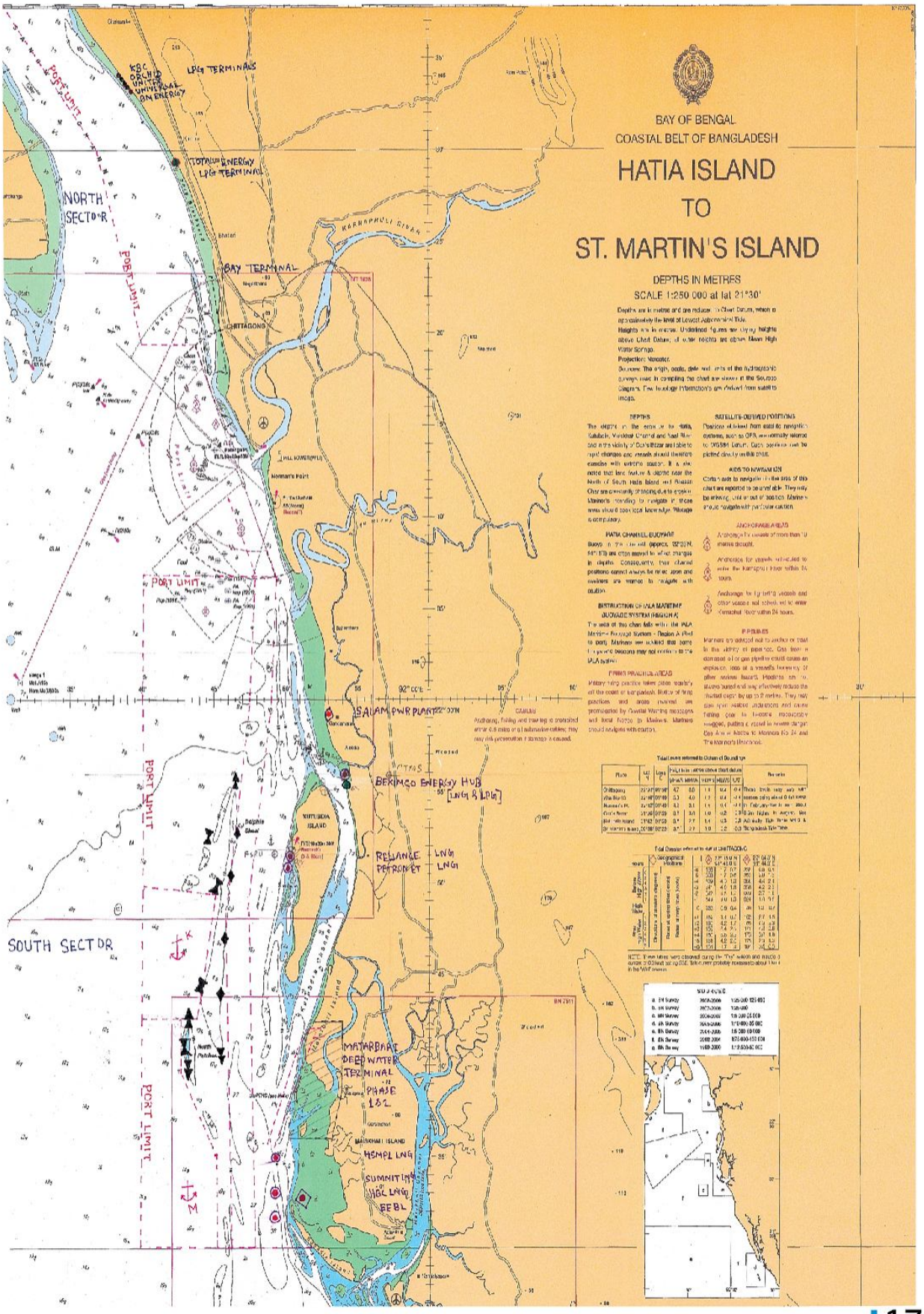
Office to the Upstream of Jetty No. 1.

- Enhancement of navigability in Karnaphuli River through Dredging from Sadarghat to Bakalia char.
- Construction of Potenga Container Terminal (PCT).
- Procurement of Two high Power Tug (5000 BHP).
- Procurement of Necessary Equipment for Various Yards And Terminals of Chittagong Port.
- Matarbari Port Development Project.

C. FUTURE PROJECTS :

- Construction of Bay Terminal.
- Expansion of Chittagong Port's yard facilities.
- Matarbari Port Development Project (Stage-1, Phase-2)
- Bay Multi-purpose Terminal.
- Construction of Multi-Purpose Terminal at Jetty No. 1-9 in GCB area of Chittagong Port.
- Port Sector Master Plan.
- Construction Of Mirasarai/Sitakunda Port.
- Expansion of Chittagong Port's yard facilities with truck terminal.
- Matarbari Port Development Project (Stage-2).
- Procurement of various types of tugs, pilot vessels and utility service providers for new future projects of the expanded port limit and CPA.
- Construction of Heavy Lift Cargo Jetty With Back-Up Facilities.
- Construction of Bay-Terminal break water and Navigational Access Channel.

Chittagong Port Area Map



Notes