

# COCHIN PORT TRUST



# Facilities in Cochin Port

- Vallarpadam: International Container Transshipment Terminal - 1 million TEU capacity
- Puthuvypeen: 5 MMTPA LNG Terminal
- Single Point Mooring – 20 KMs offshore

## Willingdon Island Facilities

- 4 Tanker Berths
- 13 General Cargo Berths
- 1 Container Freight Station
- 1 International Cruise Terminal
- Port has a total 2,189 acres of land

# Facilities in Cochin Port



**Cochin Port  
Willingdon Island**

**Vallarpadom**

**ICTT**

**Puthuvypeen**

**IOCL LPG  
Tank Farm**

**BPCL-KR  
Shore Tank Farm**

**LNG  
TERMINAL**

**SBM**

**Proposed  
Outer Harbour**

**MULT**

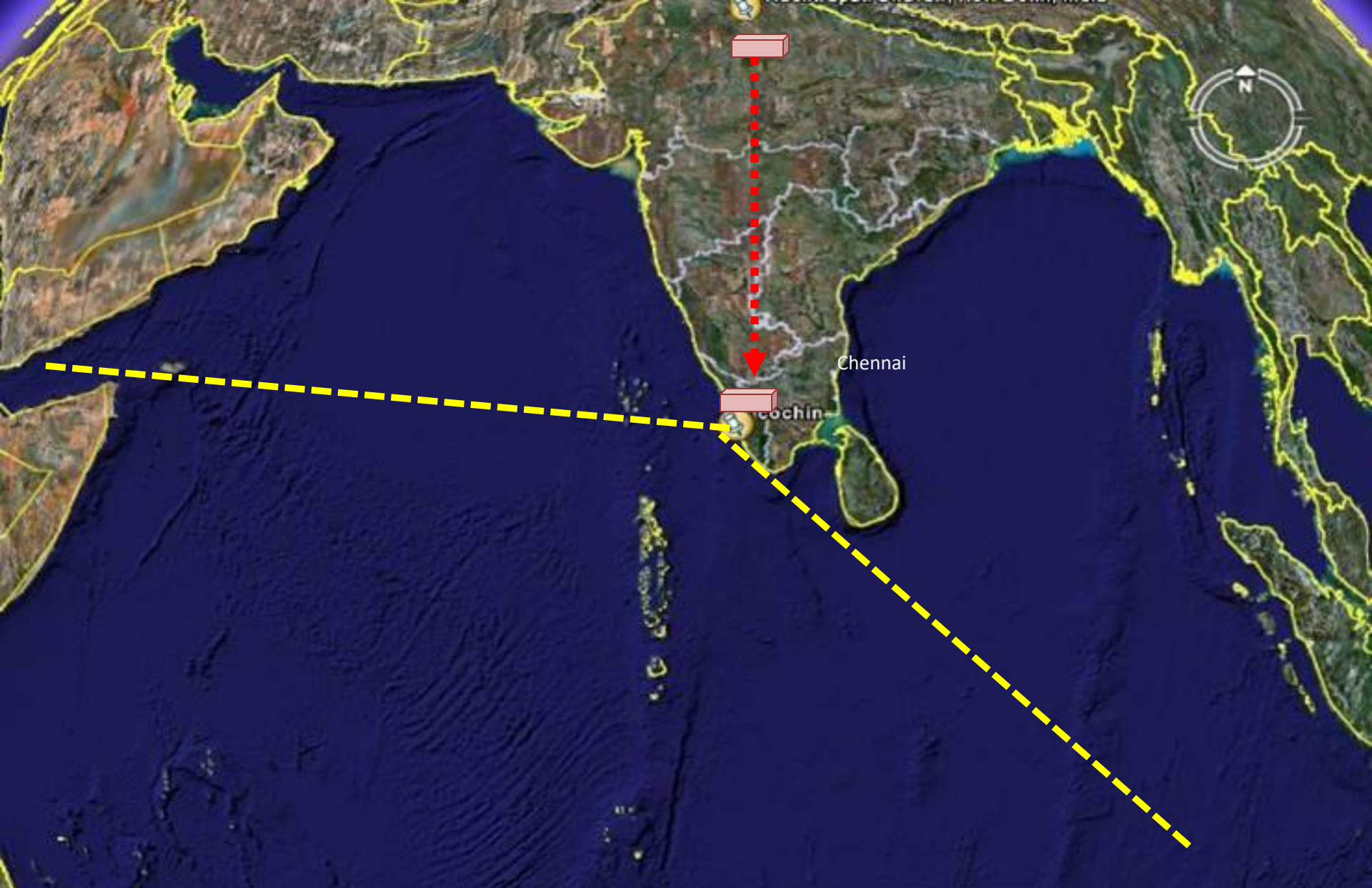
-15.95metres

-13.25m

-9.75 m



**65% OF INDIA'S EXPORT / IMPORT CONTAINERS ARE  
TRANSSHIPPED THROUGH NEIGHBOURING COUNTRY  
PORTS**



# THE COCHIN OPPORTUNITY

# LNG Port and Re-gasification Terminal

- 5 MMTPA LNG terminal commissioned in August 2013.
- But it is running at 2% capacity as pipeline laying by GAIL to Bangalore & Mangalore is not complete.  
Only 40 out of 900 km completed
- Port will earn Rs.105 crores per year when terminal works at 100% capacity



# MULT at SEZ on Puthuvypeen



Capacity : 4.10 MMTPA

Indian Oil Corpn is funding construction of jetty for handling tankers upto 80,000 DWT

# BPCL-Kochi Refinery & Cochin Port

BPCL has a 9.5 MMTPA Refinery at Cochin.

Kochi Refinery is expanding by 6 MMTPA

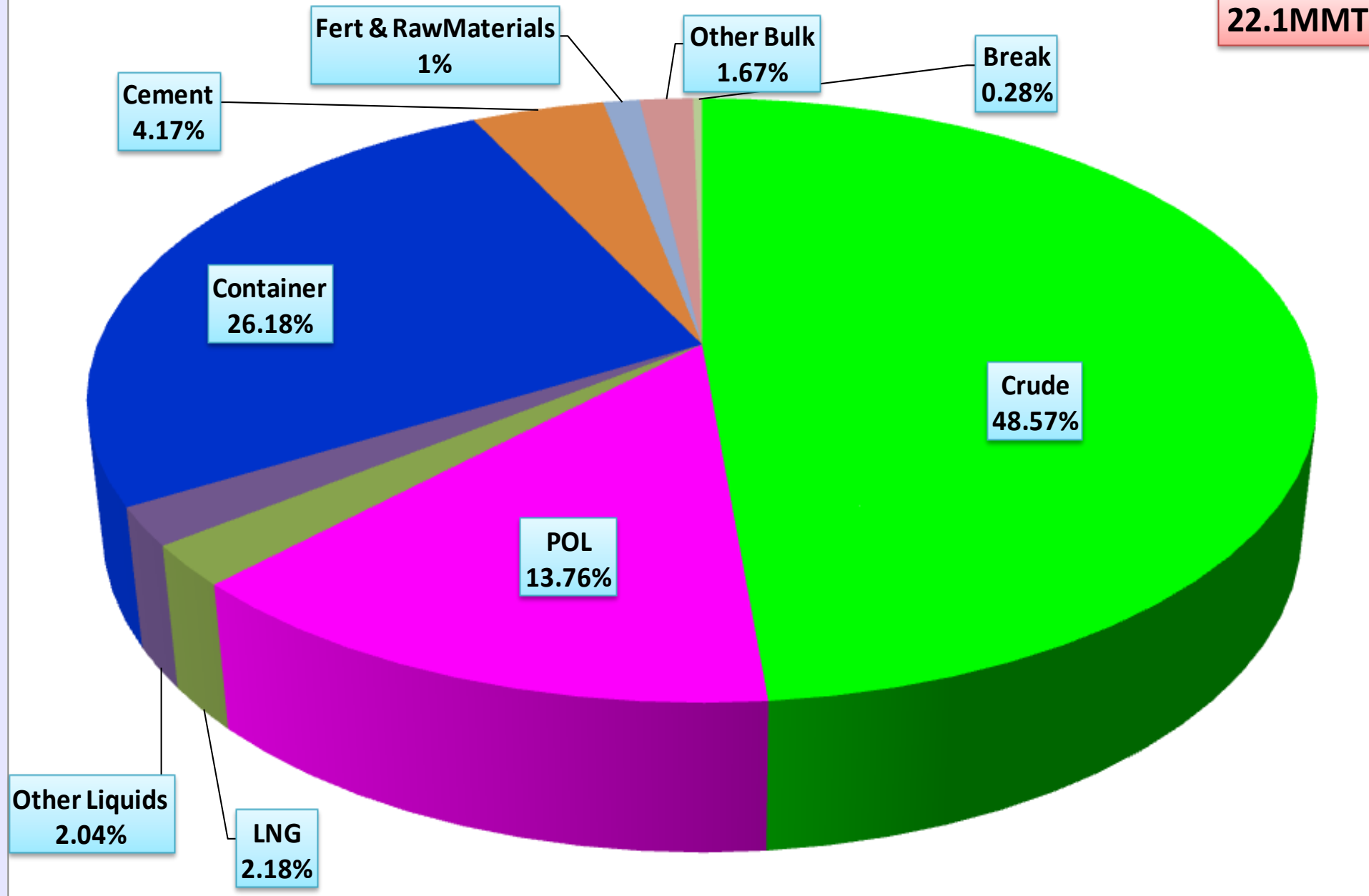
Expansion project will be completed in April 2016, adding 8 MMT to Port cargo volumes.

SPM allows VLCCs to bring crude to Kochi Refinery

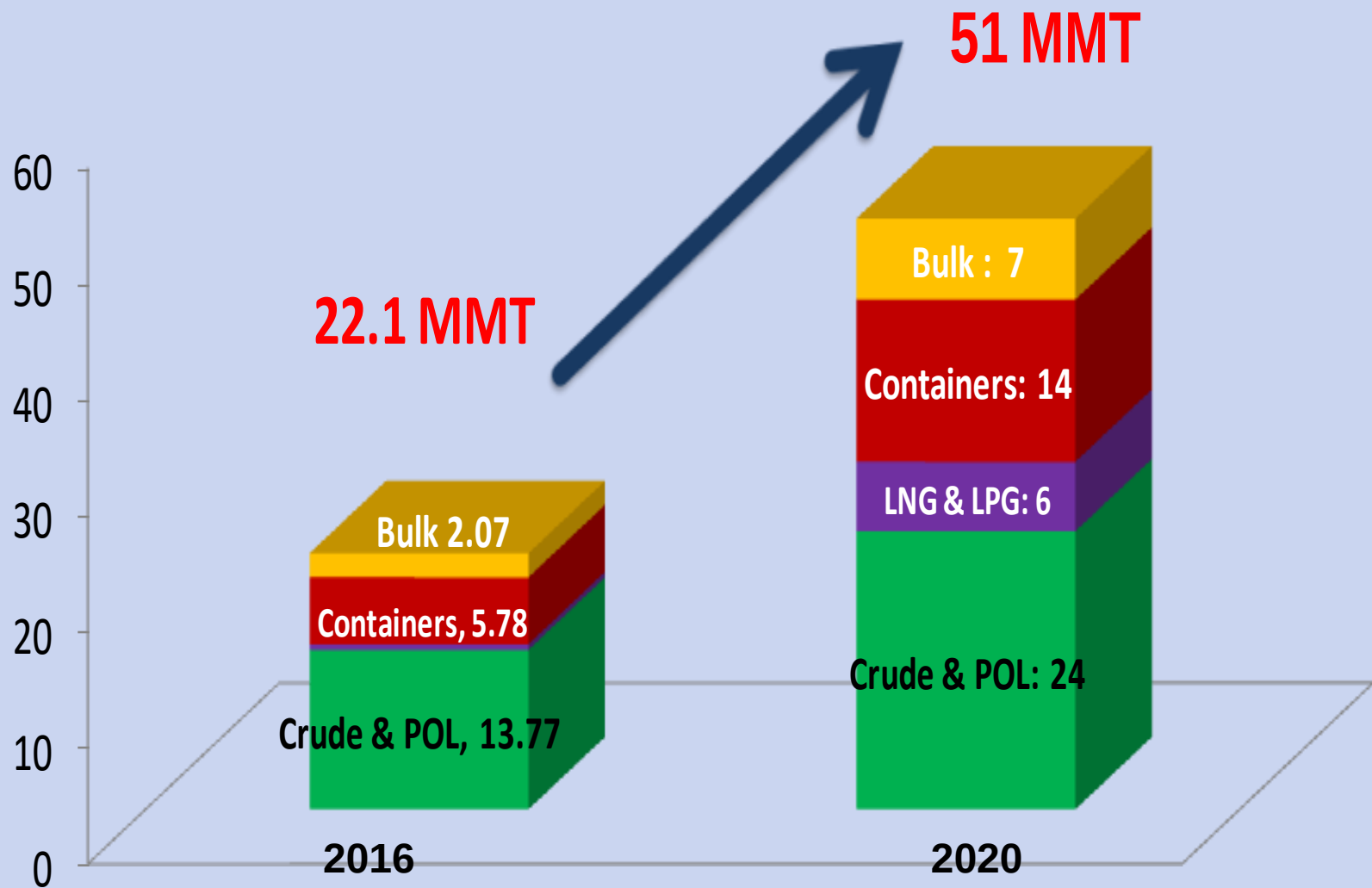


# CARGO PROFILE -2015-16

22.1MMT



# Cargo Projection for Cochin Port



# Vision for Cochin Port

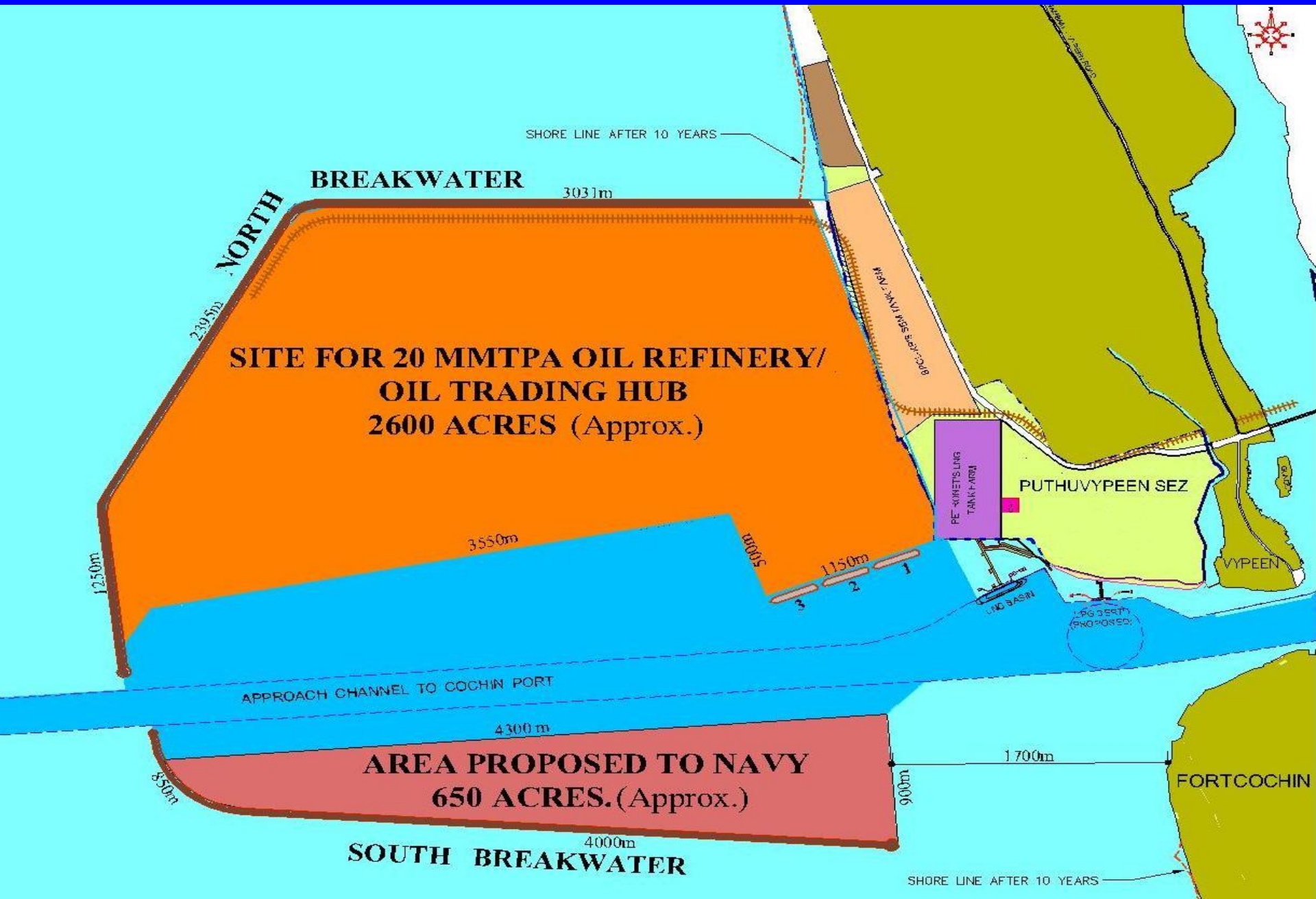
- Vision is to be like Singapore Port
- Strong in Containers, Energy & Tourism
- And to develop the entire bouquet of port-related services like
  - Bunkering (oil & water)
  - Onboard repairs
  - Chandelling & Victualling
  - Crew Change Services
  - Grey water reception facilities

# COCHIN OUTER HARBOUR

# Cochin Outer Harbour

- Studies show that 95% siltation in Cochin Port is from sea
- IIT, Chennai & CWPRS recommend Breakwaters to reduce this
  - 4.85 km long Southern Breakwater & 6.67 km long Northern Breakwater
  - Breakwaters cost only Rs.3,618 cr as mean depth is only 6m
- Breakwaters reduce siltation by 40% from 21 M cu.m.
- Breakwaters can be used to build an Outer Harbour.
- 2,600 acres behind N. Breakwater & 650 acres behind S. Breakwater
  - Dredging & filling to cost Rs.2,732 cr
- S. Breakwater & 650 acres required by Navy for new Southern Fleet
- 2,600 acres behind N. Breakwater for projects
- Land can be used for Liquid Trading Hub/ Petroleum Refinery /Offshore Rig Fabrication /Free Zone/ Ultra Mega Power Plant
- Breakwaters have beneficial effect on coastal communities by leading to accretion & beach nourishment

# Cochin Outer Harbour

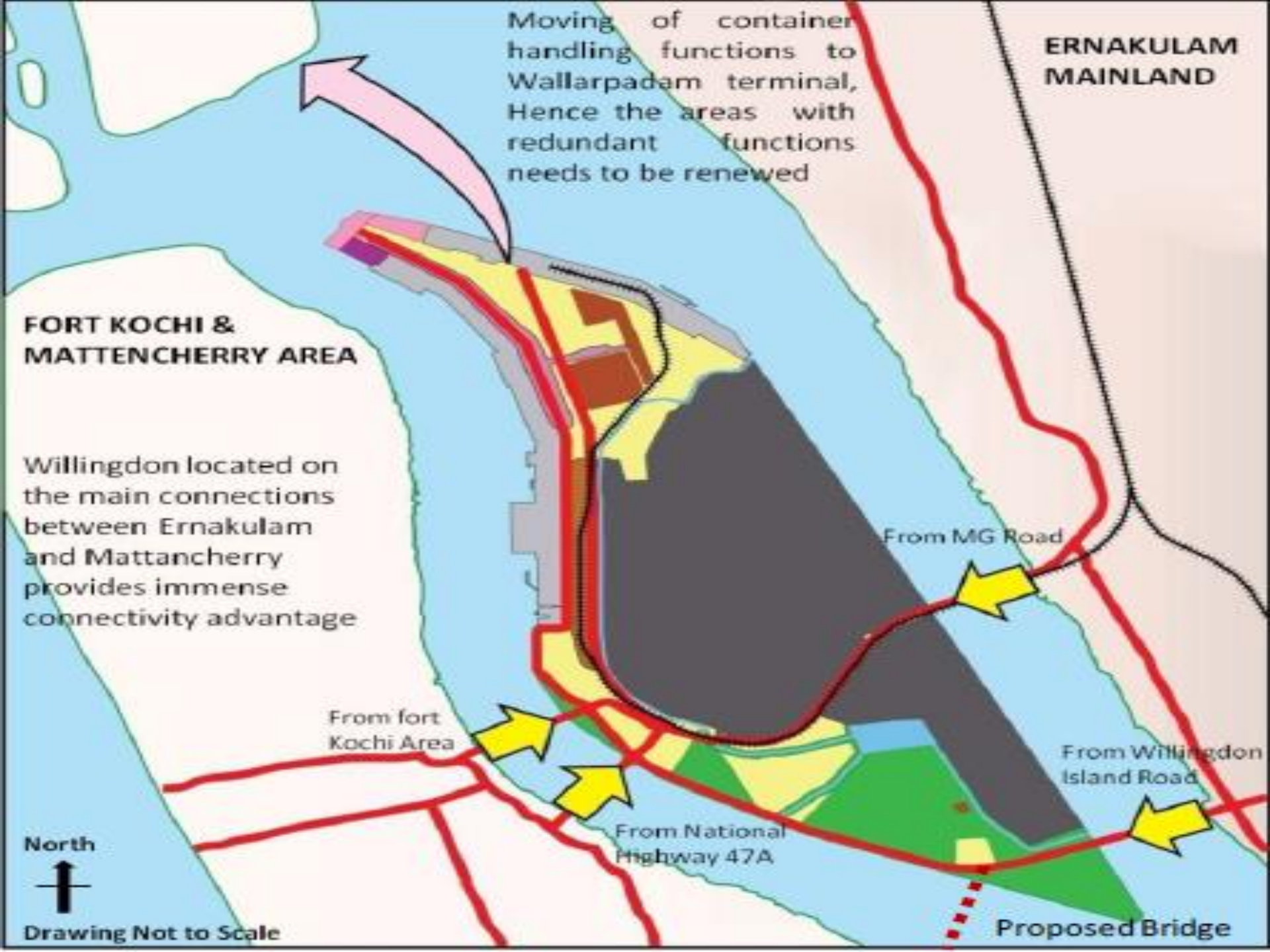


# Cochin Outer Harbour



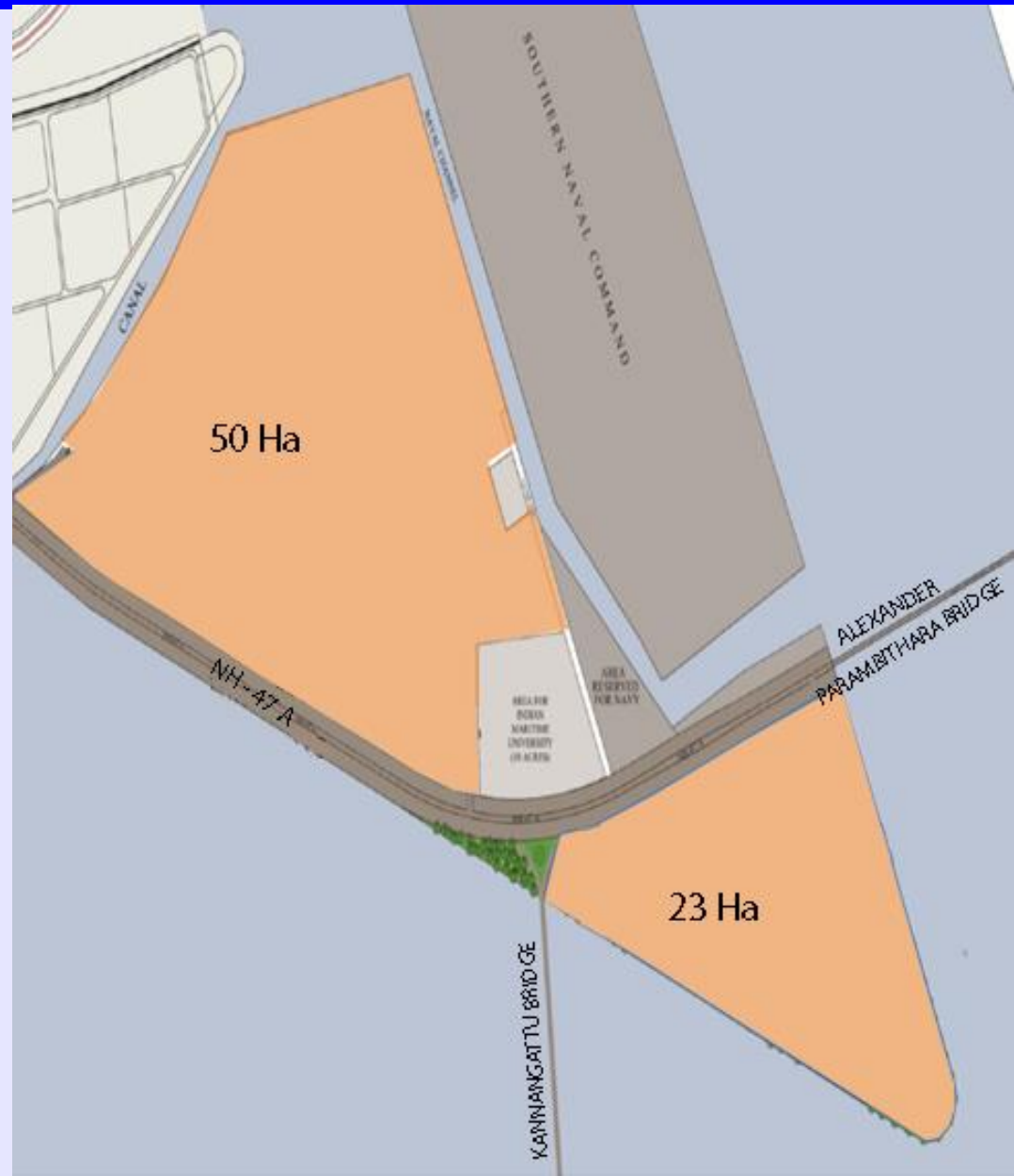
PROPOSED OUTER HARBOUR AT COCHIN PORT

# SMART PORT CITY



# Cochin Smart Port City

- Cochin is one of the 20 cities selected for Smart City project
- A Smart Port City is to be developed on a 180 acre plot in the south east corner of Willingdon Island
- The site is well connected with Cochin
- The site has water front on 3 sides
- Ideal for commercial complexes, office buildings , five star hotels, convention centers, etc.

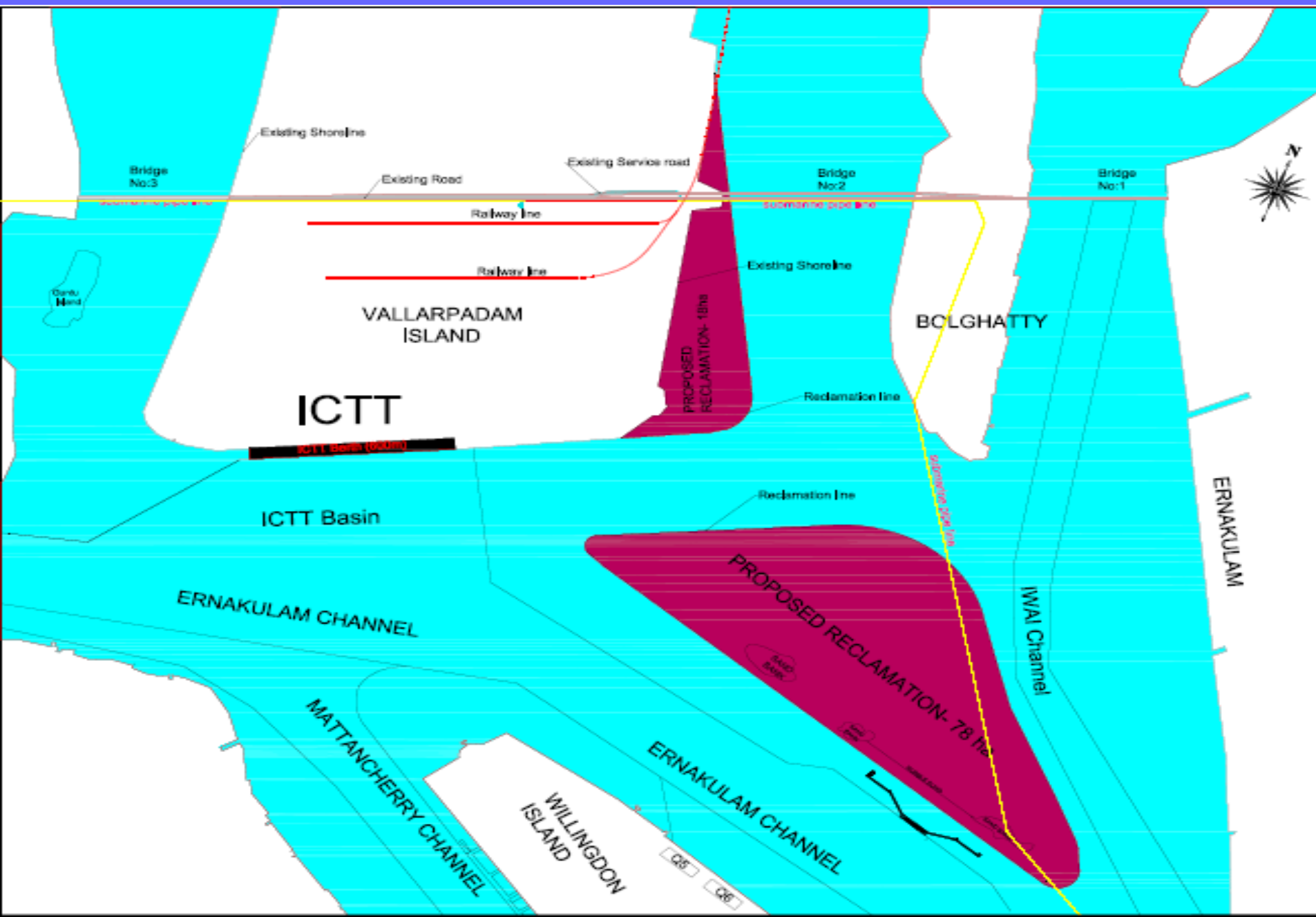


# **INTERNATIONAL CRUISE TERMINAL & ENTERTAINMENT ZONE**

# International Cruise Terminal

- It is proposed to create a 78 ha. Island east of ICTT with the spoils from the capital dredging for the 2<sup>nd</sup> phase of ICTT.
- The water frontage to the Ernakulam Channel is 1,980 m
- After 700m for Cochin Oil Terminal, there will be net addition of 1,280m water frontage
- A berth for cruise vessels of upto 350m will be built here.
- The cruise terminal will also have an entertainment zone, shopping mall, a hotel and other amenities.

# Cruise Island



# Cruise Island



395 m

© 2012 Google  
Image © 2012 GeoEye

©2010 Google

Imagery Date: 2/1/2012 2002

9°58'26.79" N 76°15'37.05" E elev 0 m

Eye alt 1.22 km

# Sand Mining Project

- Port proposes to use **dredged sand** for construction purposes after segregating and subjecting it to washing.
- **2.4 MLD** of de-mineralized water from LNG terminal to be used for washing operations.
- Port proposes to call a **tender-cum-auction** for a sand mining operation
- The period of the concession will be for **30 years**.
- Port will undertake the dredging and deliver the sand by means of pipelines.



# Development of Tea Park

- ❖ Cochin Port is a major **Tea Auction Centre** in the South India
- ❖ A land area of **6 acres** is proposed to be earmarked for setting up of the Tea Park.
- ❖ Park is targeted to have **state-of-the-art**/ automated warehousing facility for raw tea and processed tea, auction centre, with administration and settlement support, office infrastructure for stakeholders, common facilities such as meeting rooms, canteen/ food court, guest house etc, infrastructure for processing of value added products and a logistics centre.



# Cryogenic Warehousing

Cochin Port has a 5 MMTPA LNG terminal and Regasification Plant owned by the Petronet LNG Ltd.

cold energy available from the regasification process can be used for creation of a zero CO<sub>2</sub> emission cold-chain hub.

10 acres of land adjoining the LNG terminal in Puthuvypeen Port Based SEZ is earmarked for setting up the cold storage on PPP basis.



THANK YOU