Somaya & Kalappa Consultants

Maritime Museum for Mumbai

Traffic Office building/ Ghadiyal Ghar

SNK

- Somaya and Kalappa was founded in 1975
- International and National award winning firm
- Handled projects both in India and abroad
- Head Office in the heritage business district of Mumbai

SNK is a full service architectural firm offering each client a combination of imaginative design, expertise, and intense involvement. The firm's reputation is based on providing the highest quality of professional services to every client. We strive to produce work that is creative, practical and economical, while keeping in mind the social, economic, environmental and aesthetic issues relevant to each project.

SELECTED INTERNATIONAL AWARDS

•UIA – VASSILIS SGOUTAS PRIZE

For Rehabilitation of *Bhadli* Village, Bhuj

•SEED (SOCIAL ECONOMIC ENVIRONMENTAL DESIGN) – CHICAGO COMPETITION SFI 11

Honourable mention for Rehabilitation of *Bhadli* Village, Bhuj

•LEAF AWARDS – THE LEADING EUROPEAN ARCHITECTS FORUM

For Nalanda International School, Vadodara

•UNESCO ASIA- PACIFIC HERITAGE AWARDS FOR CULTURE HERITAGE CONSERVATION

For St. Thomas Cathedral, Mumbai

•THE PHAIDON ATLAS – ALL THE GREATEST BUILDINGS OF THE 21ST CENTURY

For *Bhadli* Village School, Bhuj

SELECTED NATIONAL AWARDS

•INDIAN INSTITUTE OF ARCHITECTS NATIONAL AWARDS FOR EXCELLENCE

For Restoration and Preservation of Rajabai Clock Tower and University Library Building, Mumbai

•KOHLER BOLD DESIGN AWARDS

For Mumbai Esplanade Project, The Visionaries - The Big Idea Category

•URBAN HERITAGE AWARD – INDIAN HERITAGE SOCIETY, MUMBAI

For St. Thomas Cathedral, Mumbai

•THE IGEN 50 AWARD

For the top 50 next generation architects and interior designers

•FELICITATES AND HONOURS FOR BEING AN ACHIEVER AND AN ICON AMONG WOMEN

From Institute of Indian Interior Designers

•J.K. CEMENTS – AYA AWARD – INDIAN STATE OF ARCHITECTURE AWARD

For Jubilee Church at Sanpada, Navi Mumbai

INDIAN INSTITUTE OF ARCHITECT'S BABURAO MHATRE GOLD MEDAL

Award given to a Distinguished Architect or Man of Science or letters who has produced works which promote or facilitate the knowledge of Architecture or the various branches of Science connected therewith.

SMITH COLLEGE

HONORARY DOCTORATE

"For your drawing together of the built and un built, the forms of the old and the imperatives of the new, Smith College is proud to award you the degree doctor of fine arts, *Honoris causa*."

GLOBAL 100

PUBLIC INTEREST DESIGN

Persons working at the intersection of design and service globally.

THE WIENERBERGER GOLDEN ARCHITECT AWARD FOR LIFETIME ACHEIVEMENT

"It is heartening to observe a person's lifetime dedication, involvement and focused creativity being applauded with such unanimity."

BRINDA SOMAYA

FOUNDER | PRINCIPAL ARCHITECT

Chairperson of Board of Governors – School of Planning and Architecture, Vijayawada – 2016, an Institute of National Importance

Member - National Advisory Board of NCSHS (National Centre for Safety of Heritage Structures) - 2014

Member - Editorial Board for MARG Architectural Books – 2008

Member - INTBAU, (International Network for Traditional Building, Architecture & Urbanism) India – 2007

Member - Committee of `Environmental Impact Assessment of New Construction Projects & New Industrial Estates' for `Ministry of Environment & Forests', Government of India - 2006

Member - Committee of Oval as the Nominee of the Navajbai Ratan Tata Trust - 2005

Member - IAWA board of Advisors (International Archive of Women in Architecture) - Virginia Tech, Blacksburg, U.S.A. - 2000-2003

Founder Trustee - The HECAR Foundation - 1999

Chairperson - Women in Architecture - 2000 Plus Conference & Exhibition on the works of the South Asian Women Architects

Member - Mumbai's Initiative for the Protection & Improvement of Streets & Public Spaces – 1999

Member - Urban Heritage Conservation Committee, Bombay. 1993 1995 & 1996 - 1999

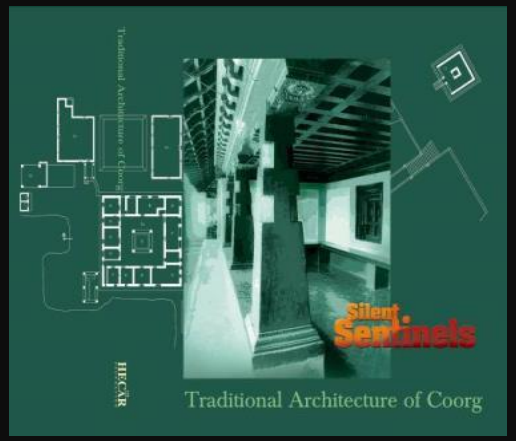
Selection Committee Member - Post of Principal Sir J.J. College of Architecture 1996

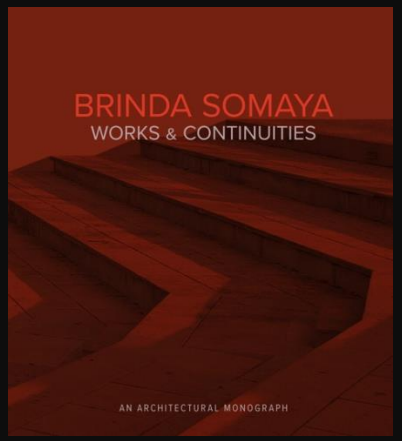
High Power Committee - Appointed by the University of Bombay to inspect Sir J.J. College of Architecture - 1996.

Managing Committee - Colaba Woods & Sports Complex - 1989

Trustee - Spastic Society of India - 1988 - 1993

BRINDA CHINNAPPA SOMAYA
FOUNDER| PRINCIPAL ARCHITECT





THE HECAR FOUNDATION

The Hecar Foundation hosting
'Women in Architecture - 2000 Plus' was created to celebrate Mumbai's multifaceted historic tradition.

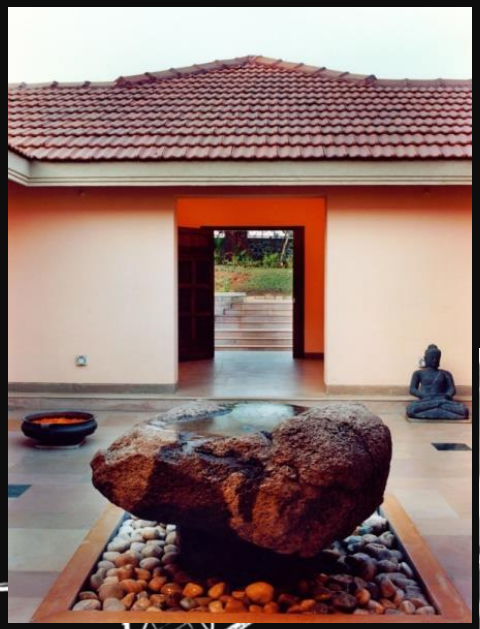
With this exhibition we hope to achieve the public exposure that all women richly deserve. We will now become more aware of our own achievemen and even more importantly, the work of each other. Design standards will be elevated and our professional image further validated.

HERITAGE EDUCATION CONSERVATION ARCHITECTURE RESTORATION

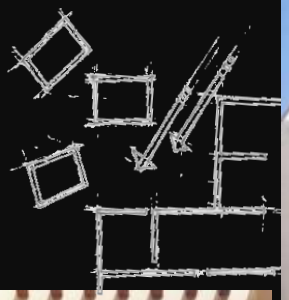
Through three decades of design

the common thread connecting projects have been elements that represent

INDIAN ARCHITECTURAL VOCABULARY



WATER



WALLS

LIGHT

GEOMETRY

MATERIAL

CORPORATE HEADQUARTERS

CONSERVATION OF HERITAGE STRUCTURES

PARKS

FACTORIES

BANKS

RESIDENCES

SCHOOLS

OLD PEOPLE'S HOME

BPOS

PLACES OF WORSHIP

HOTELS

RETAIL AND COMMERCIAL

RESTAURANTS

HOSPITAL

HI-TECH CAMPUSES

ORPHANAGES

ANIMAL HOSPITAL

RADIO STATIONS

SKYSCRAPERS

MUSEUM

UNIVERSITY CAMPUSES

MUSEUMS

SPA

SPORTS FACILITY

Fort, Mumbai

TCS House (2007)
Cathedral & John Connon Schools – Junior, Middle & Senior (2001, 1994, 1998)
St. Thomas Cathedral (2004)
Rajabai Clock Tower (2015)
India & the World (2017)
Textile Gallery (2015)
The Old Yacht Club (2007)
Image © 2015 DigitalGlobe
Image © 2015 TerraMetrics

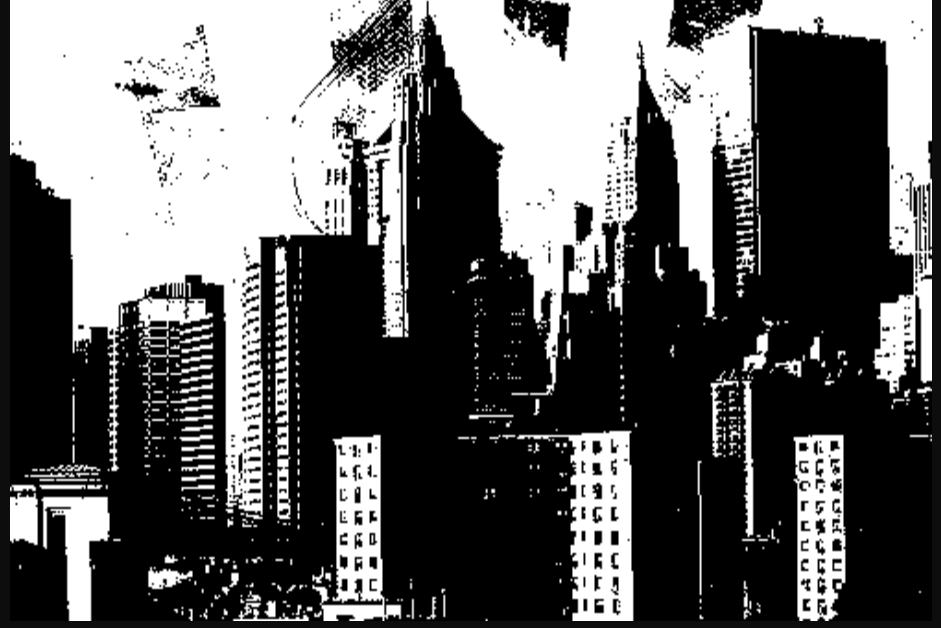
NEED FOR REGENERATION OF URBAN SPACE

LACCHA PARATHA – step by step

India is multi-layered.

to capture her in a single frame is near impossible.

SNK ... BUT IN A SINGLE FRAME YOU WILL CAPTURE HER 'ESSENCE' EACH AND EVERY TIME.

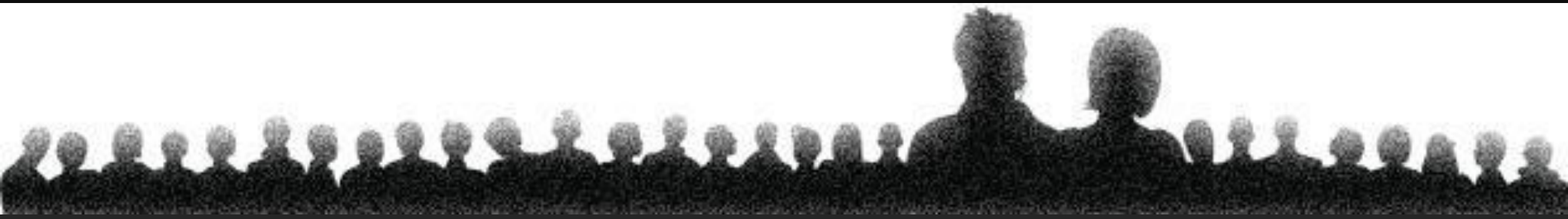


3 Billion people
In CITIES

1 Billion people
In SLUMS

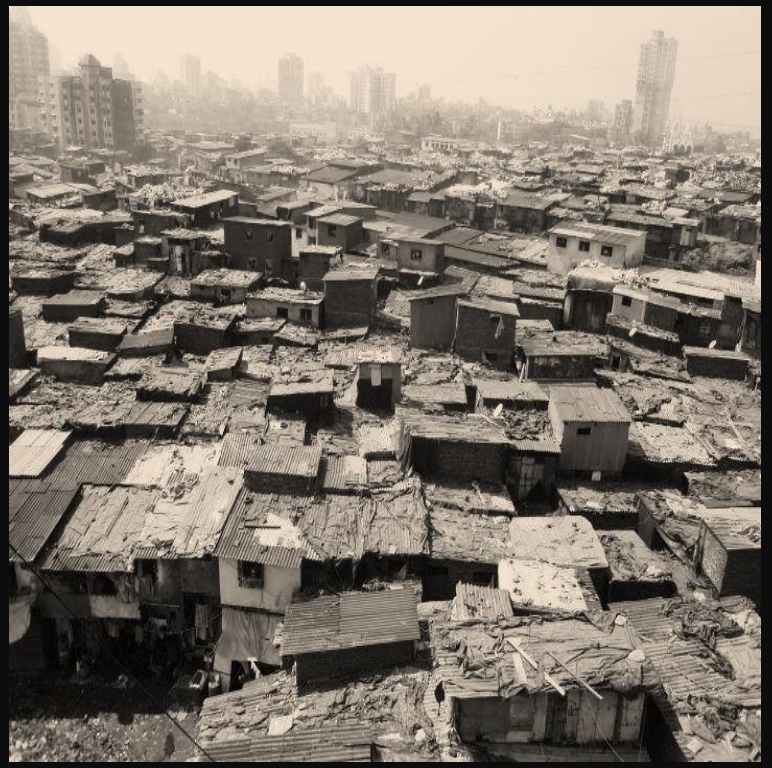
TODAY...

7 Billion people



380 million people
In CITIES

65 million people
In SLUMS



INDIA TODAY...

1.2 Billion people

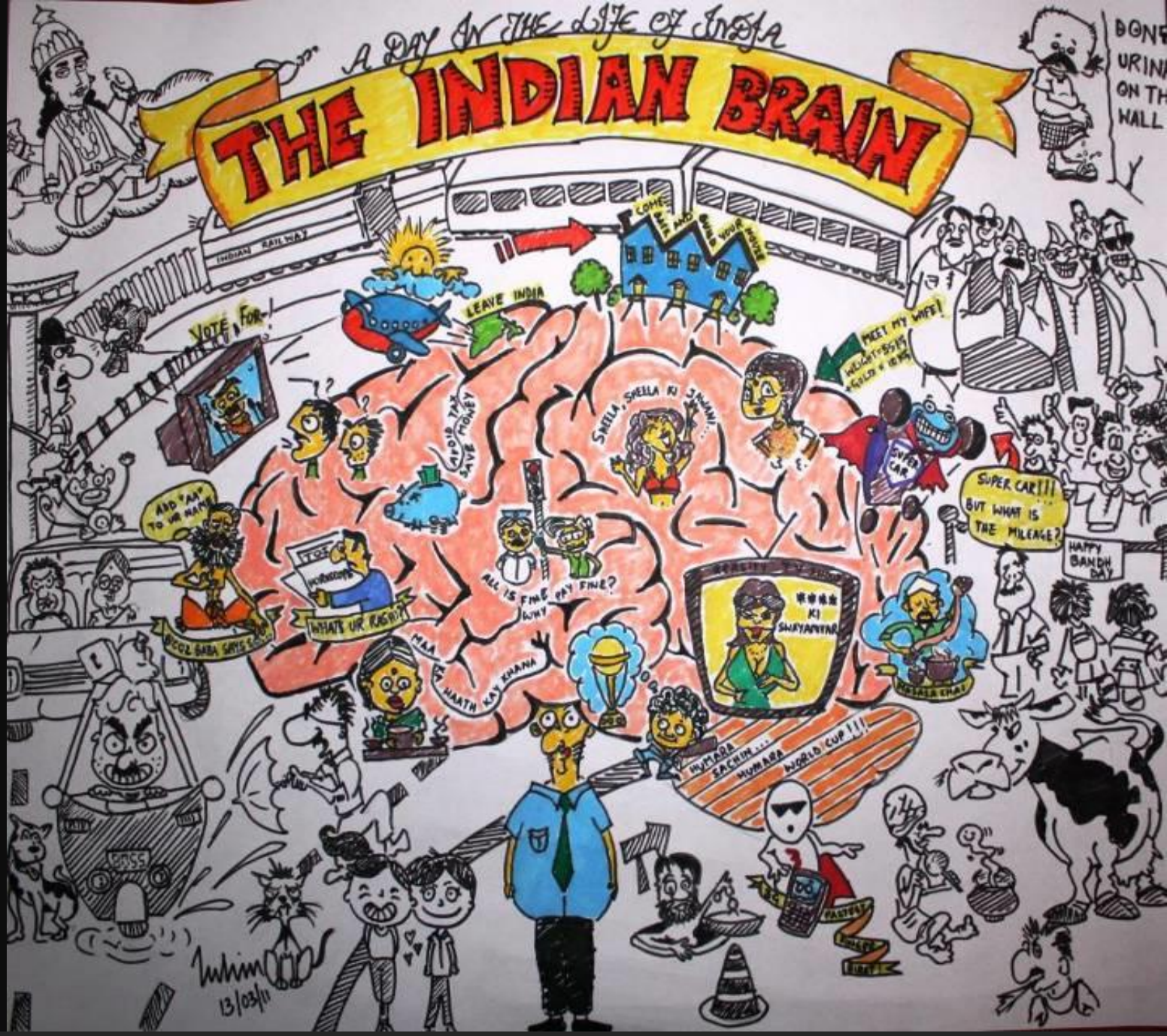
"Be as intellectual as you like about it, but

India is brilliantly mad.

And

if you want to love it, you have to hate it first."

– Simon Dring, Journalist



By 2020

India will be facing

housing shortage of 30 million dwelling units,

200 million water connections will be required,

350 million people to be given access to sewage.

160 GW of power-generating capacity to be added

number of vehicles on roads will increase five-fold.

INDIA 2020...

SOURCE: www.dailymail.co.uk/indiahome/indianews/article-2527291/The-future-Indias-growth-process-lies-cities.html#ixzz3TUrE2HCZ

Every minute

30 Indians

are leaving rural India

to settle in Urban India.

Urban

700 million Indians will inhabit cities by 2050

Rural

SNK

SOURCE: http://www.dailymail.co.uk/indiahome/indianews/article-2527291/The-future-Indias-growth-process-lies-cities.html

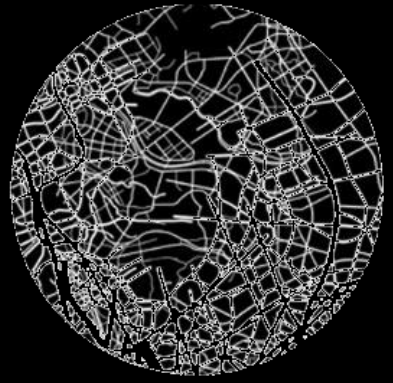
Urban

Rural

This will be the

largest urban movement

in the world.



Urban

"As India urbanises,

it will face severe challenges.

But there are huge opportunities for smart and sustainable

growth which can have a dramatic impact on the quality of life of

the expected **700 million** urban citizens."

Rural

Amitabh Kant
Secretary, Department of Industrial Policy & Promotion (DIPP), Government of India.

BOMBAY TO MUMBAI

Bombay to Mumbai

ORIGINAL SETTLERS OF BOMBAY ISLANDS

Kolis

⬇

SILAHARA DYNASTY (8th to 13th CENTURY)

Walkeshwar temple, Malabar Hill (1127 AD)

⬇

MAURYAN DYNASTY (10th TO 12th CENTURY)

Mauryan capital of Puri carved in Elephanta Island

⬇

ISLAMIC INVASION (13TH CENTURY)

Sultan Ahmad (1412-1441)

Bahudar Shah (1527-1536)

⬇

PORTUGUESE ARRIVAL (15TH CENTURY)

Vasco da gama the first Portuguese sea captain to land in India

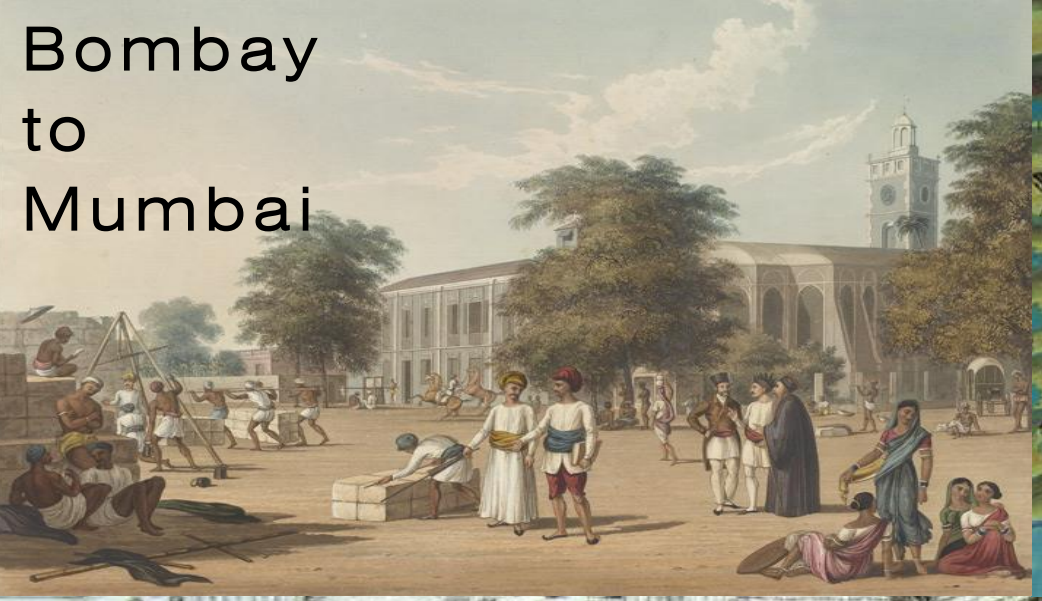
⬇

BRITISH RULE (15TH CENTURY)

The seven original islands of Mumbai at the beginning of the British rule – Late 17th century

The Island City of Mumbai - 1864

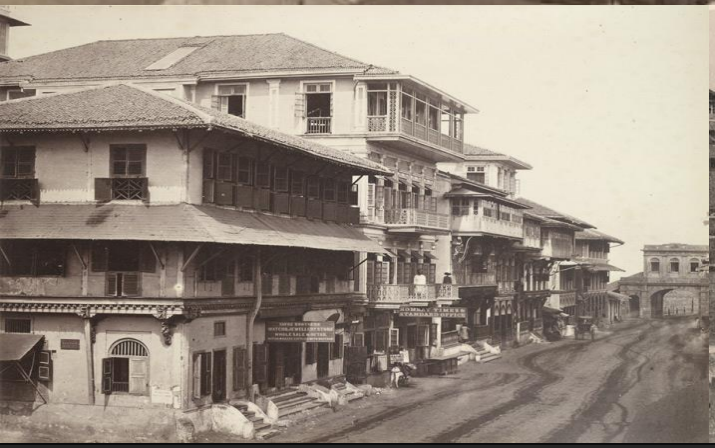
Bombay to Mumbai



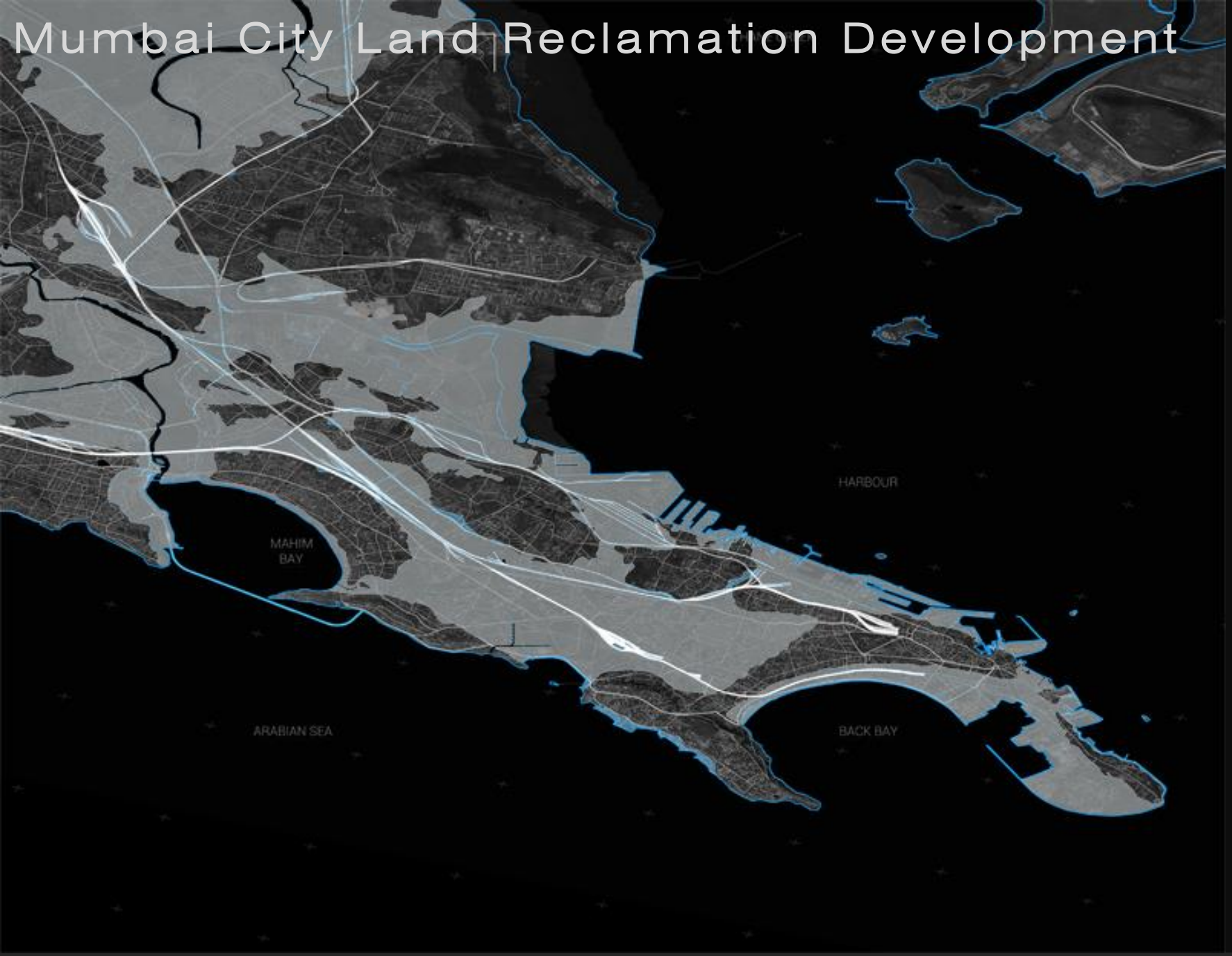
1800s

Bombay to Mumbai

1860s

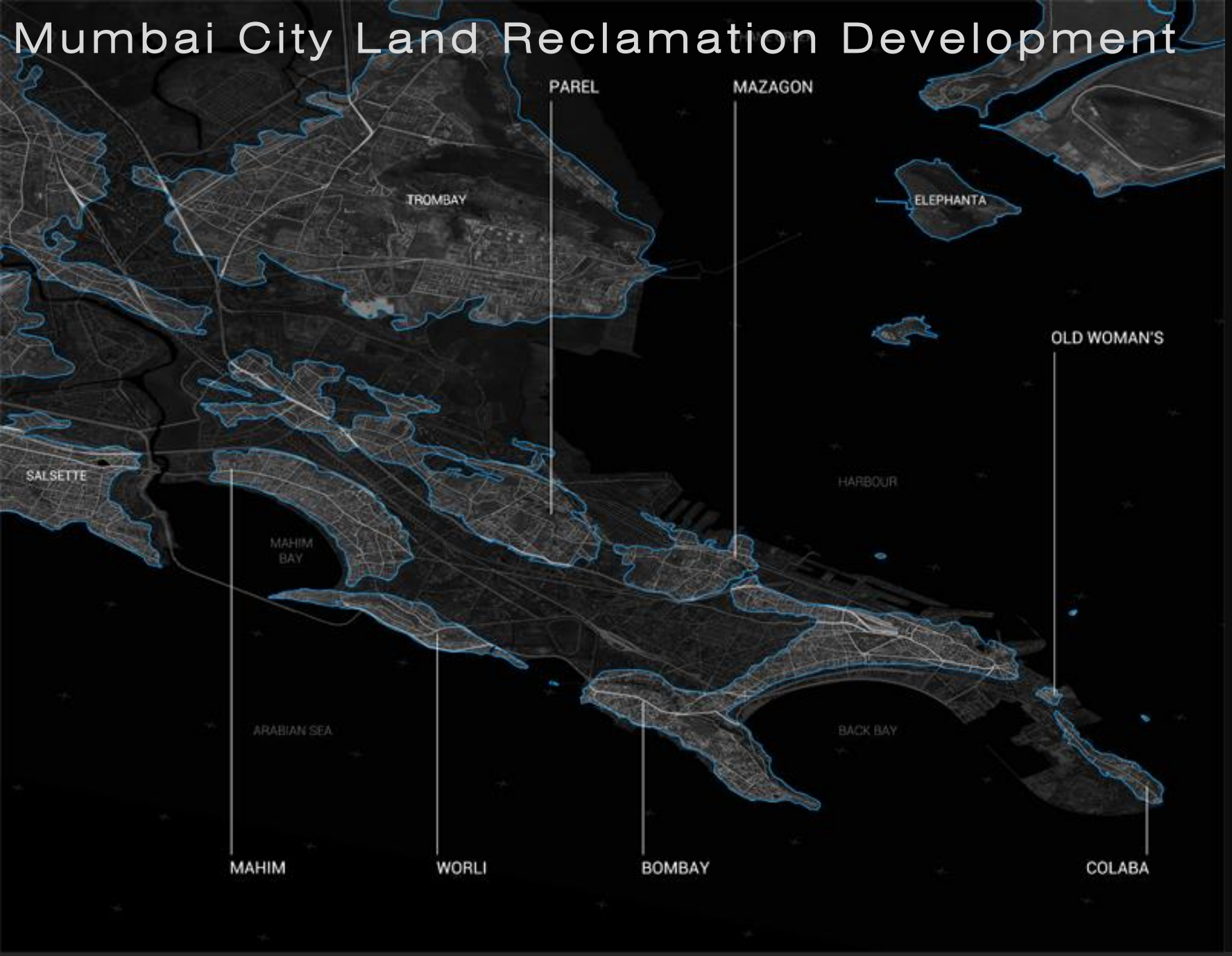


Mumbai City Land Reclamation Development



Mumbai City Land Reclamation Development

1670



CAUSEWAYS

A Mahim-Sion Causeway
B Umarkhadi
C Pydhonie
D Worli-Mahim Causeway
E Hornby Vellard
F Sion-Kurla Causeway
G Colaba Causeway
H Lady Jamsetji's Causeway
I Bandra-Worli Sea Link

RECLAMATIONS

1 Filling of Great Breach
2 Dharavi
3 Carnac Bunder
4 Fort George
5 Further Filling of Great Breach
6 Filling at Mahim Bay
7 First Back Bay
8 Dockyards
9 Apollo Bunder
10 Tank Bunder
11 Filling of Flats at Matoonga
12 Filling of Flats at Nagaum
13 Ballard Estate
14 Hay Bunder
15 Worli Sluice
16 Filling of Mahim River Flats
17 Filling of Salt Pans
18 Filling at Malabar and Cumballa
19 Second Back Bay
20 Filling of Thane Creek Flats
21 Filling of Mahul Creek Flats
22 Third Back Bay
23 Bandra-Kurla Complex
24 Naval Dockyard

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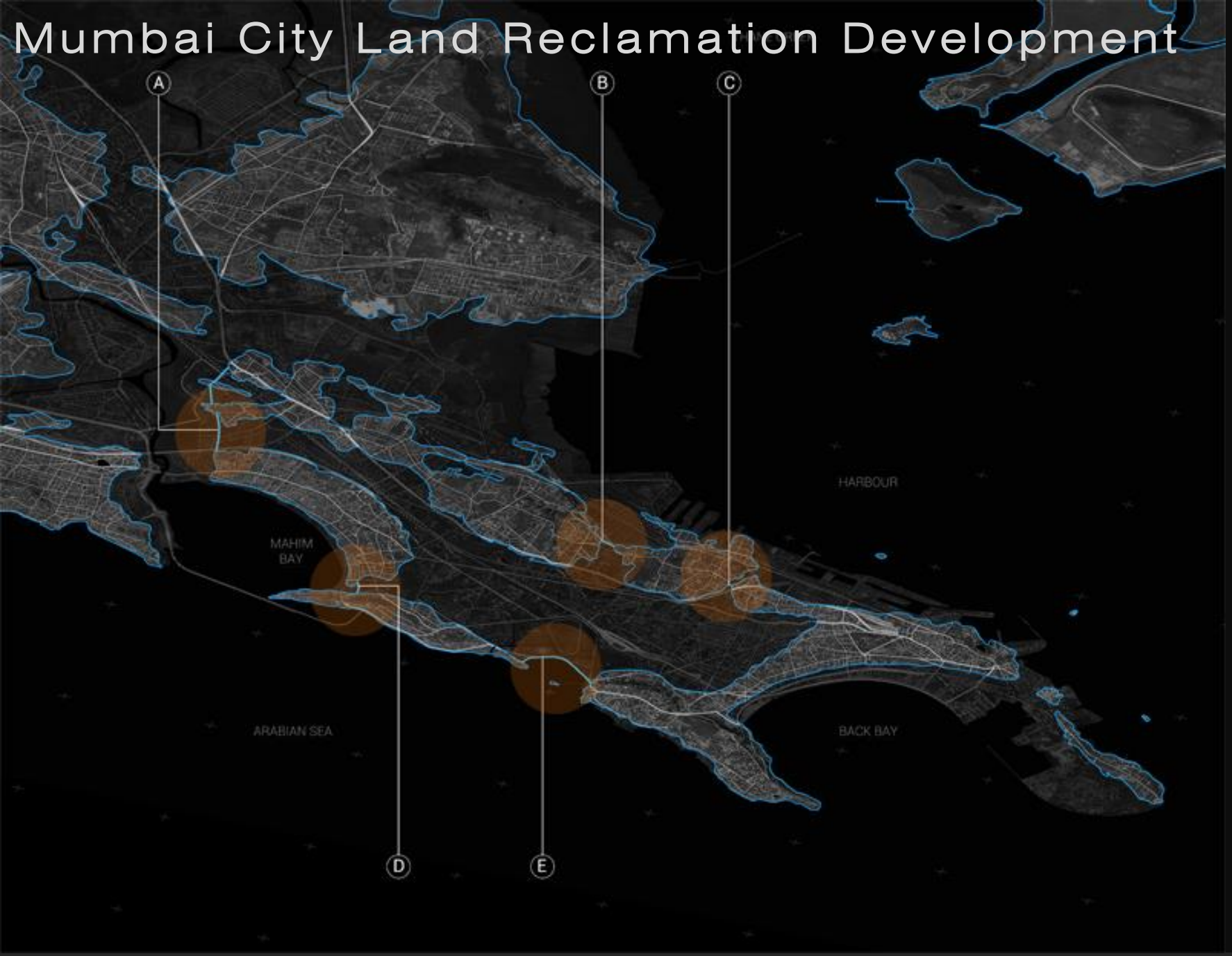

1820-1880

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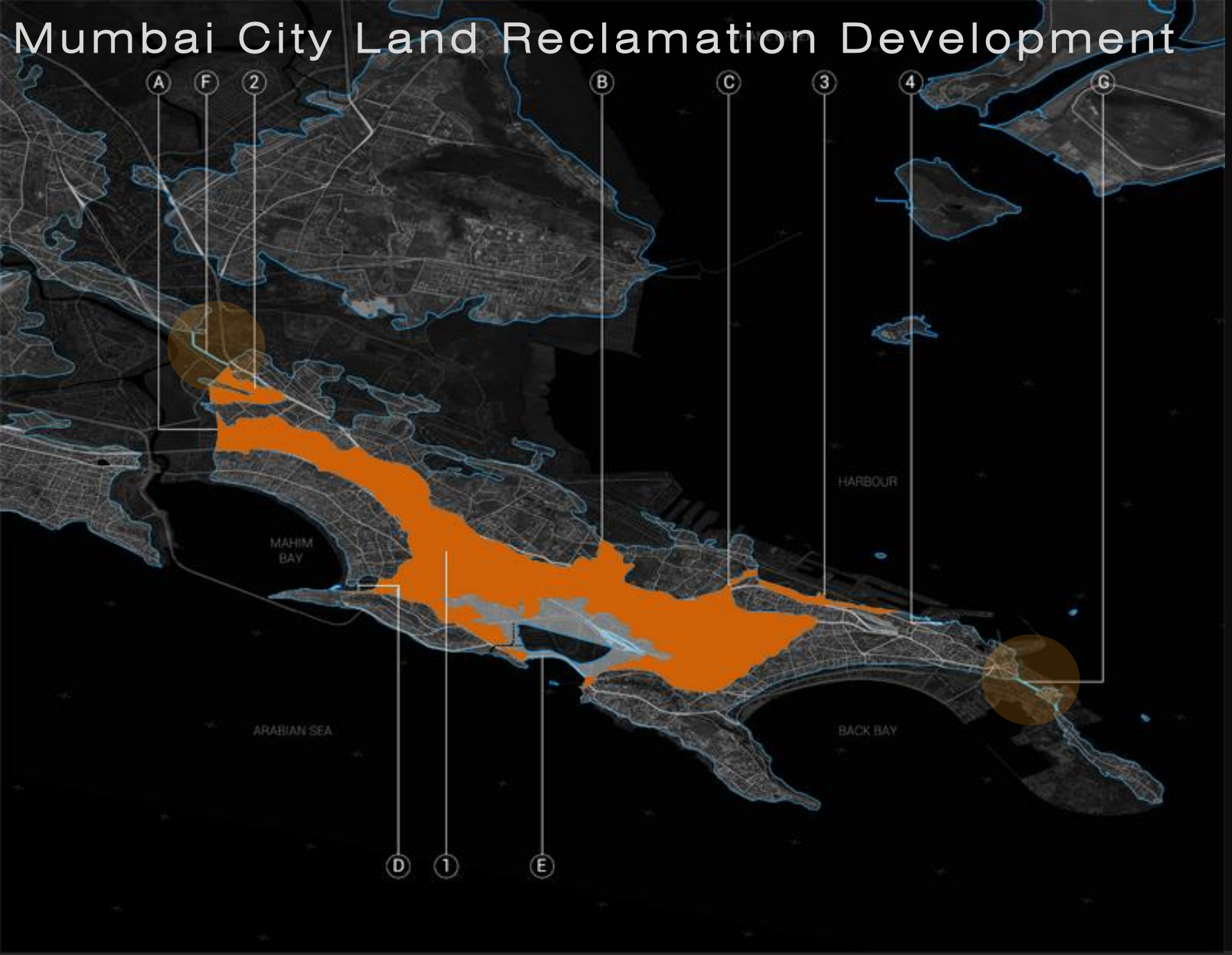

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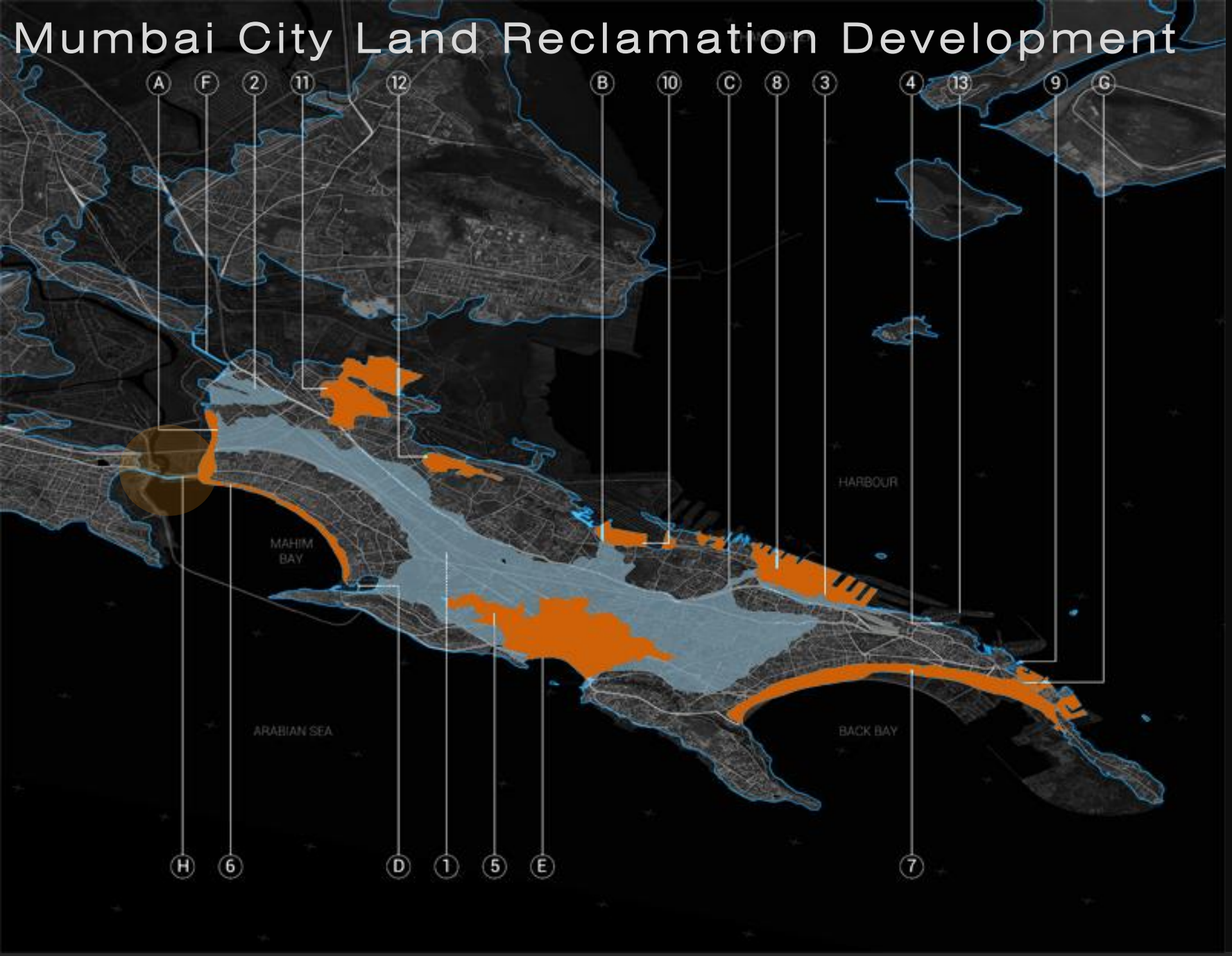

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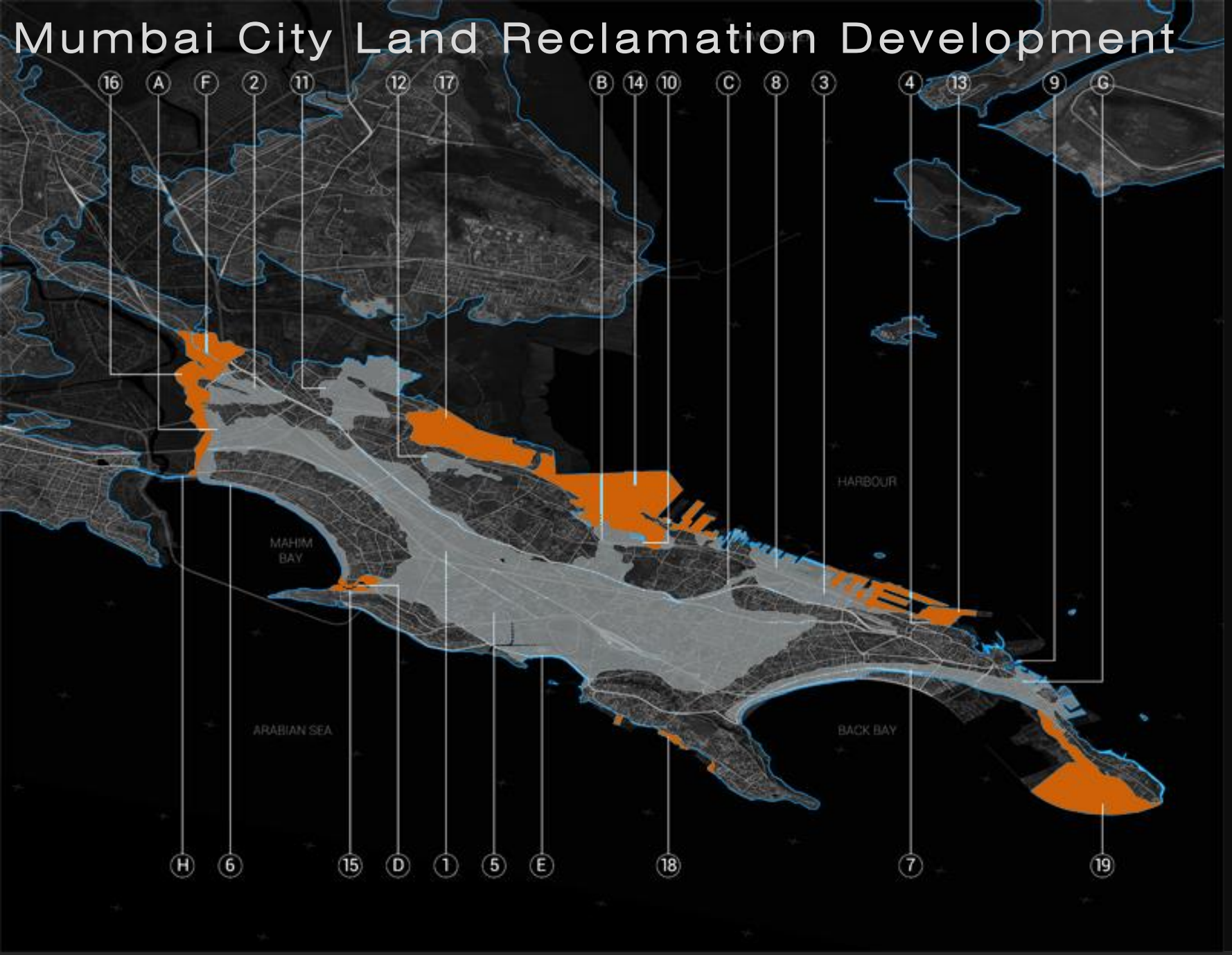

1880-1930

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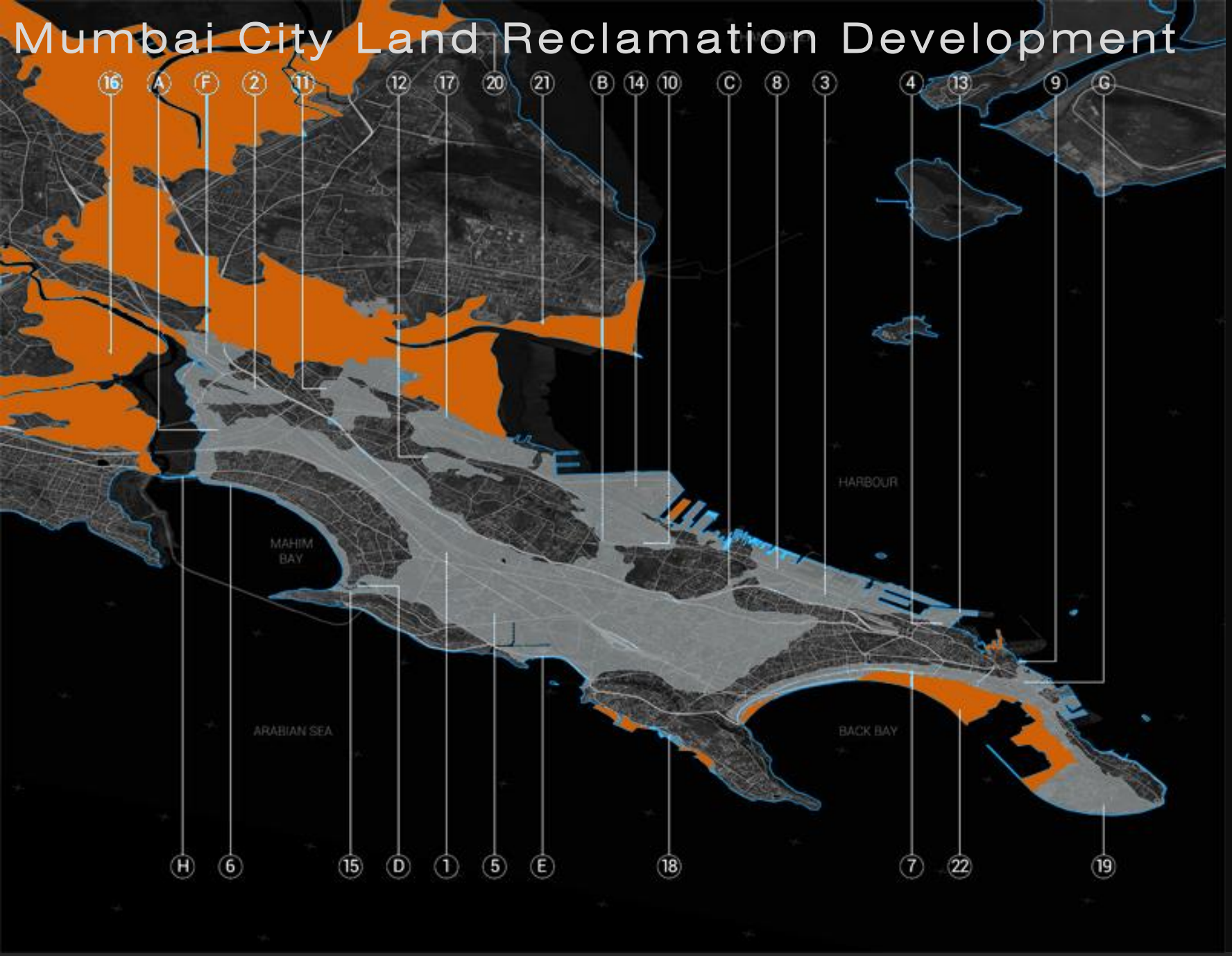

1930-1970

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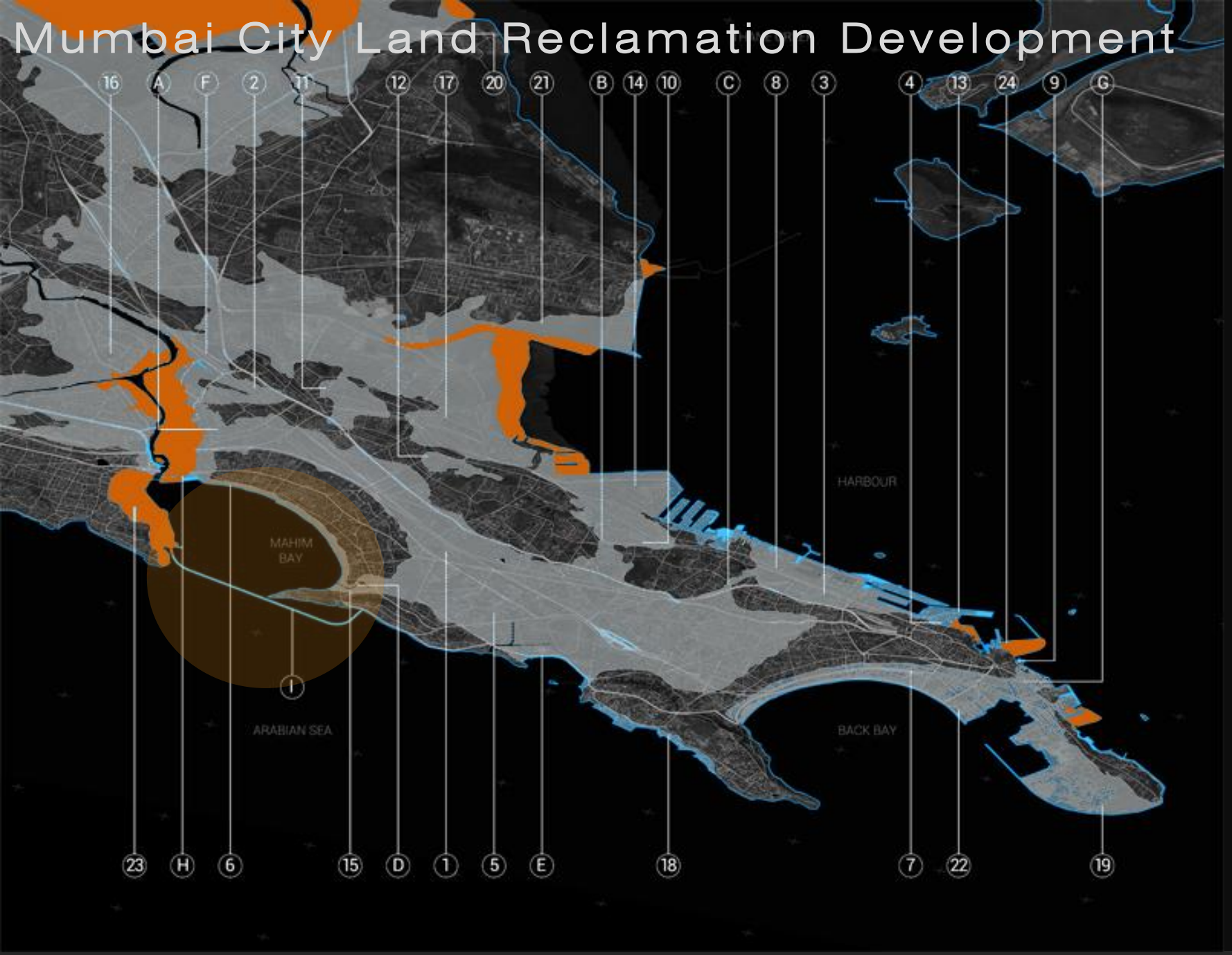

1970-2012

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Land Reclamation at Eastern Harbor

19th- 20th century

Reclamation took place from Sassoon Dock in the south to Sewri in the north

1860's-

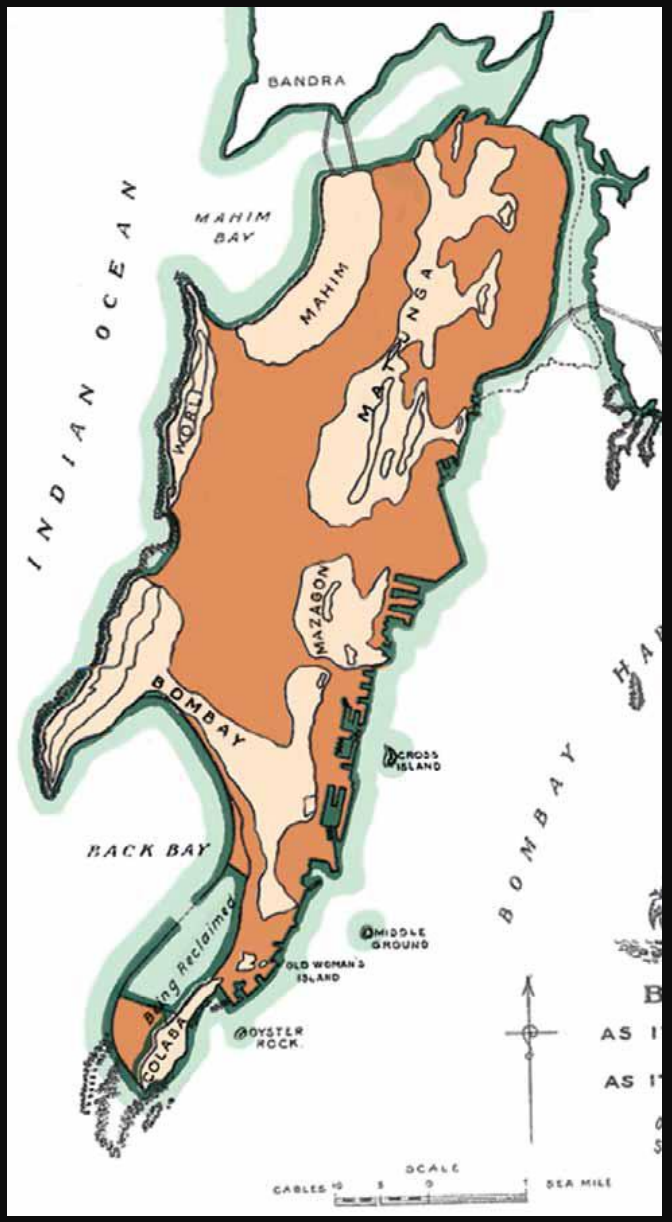
The Elphinstone Land & Press Company was formed to reclaim 250 acres of land from Apollo Bunder to Mazagaon

1880's-

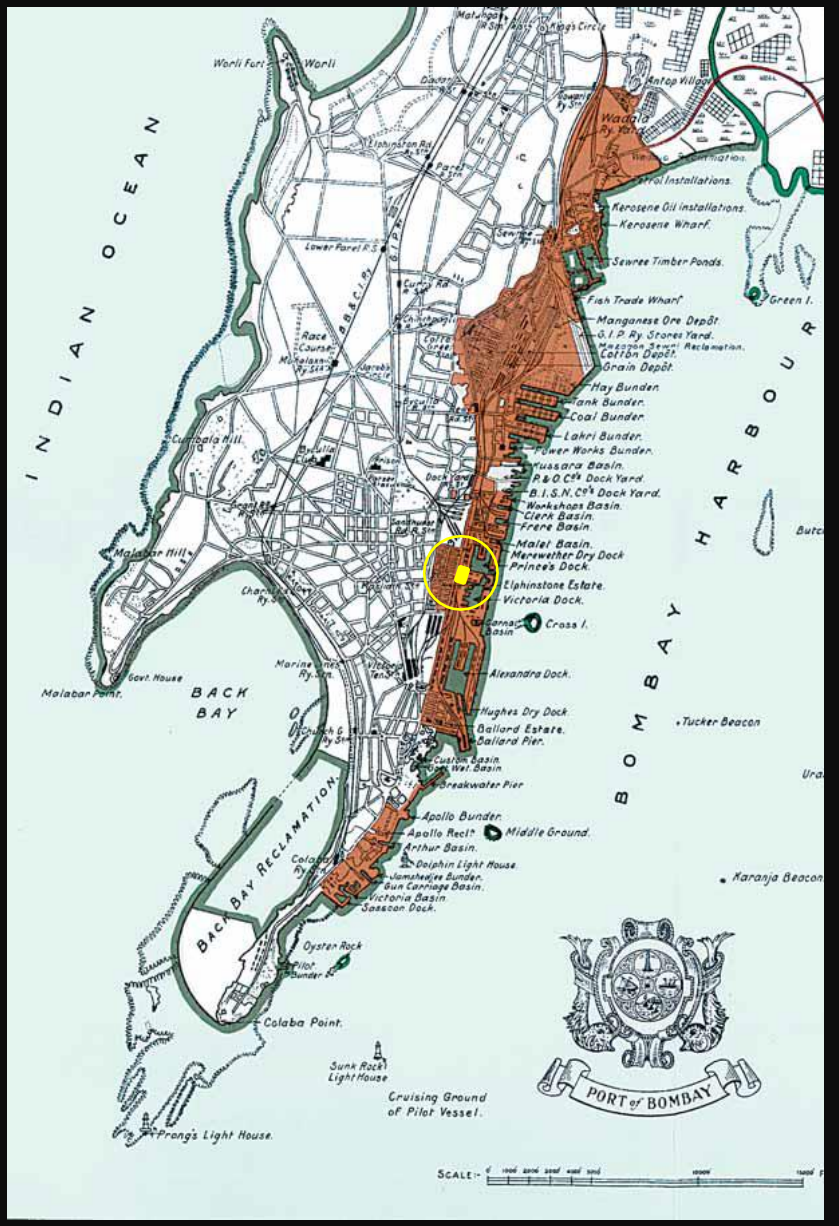
Bombay Port Trust completed the rest of Apollo Bunder to Mazagaon reclamation and built dry docks

1900's-

22 acres Ballard estate built from the earth excavated for building a dry dock



Reclaimed lands of Bombay



Docks of Bombay Harbour

Est. of Bombay Port Trust (BPT) 1873

Private companies reclaimed land on the foreshore for the landing and shipping facilities

These Private properties were later claimed by the government which made BPT the largest land owner in the city of Bombay.

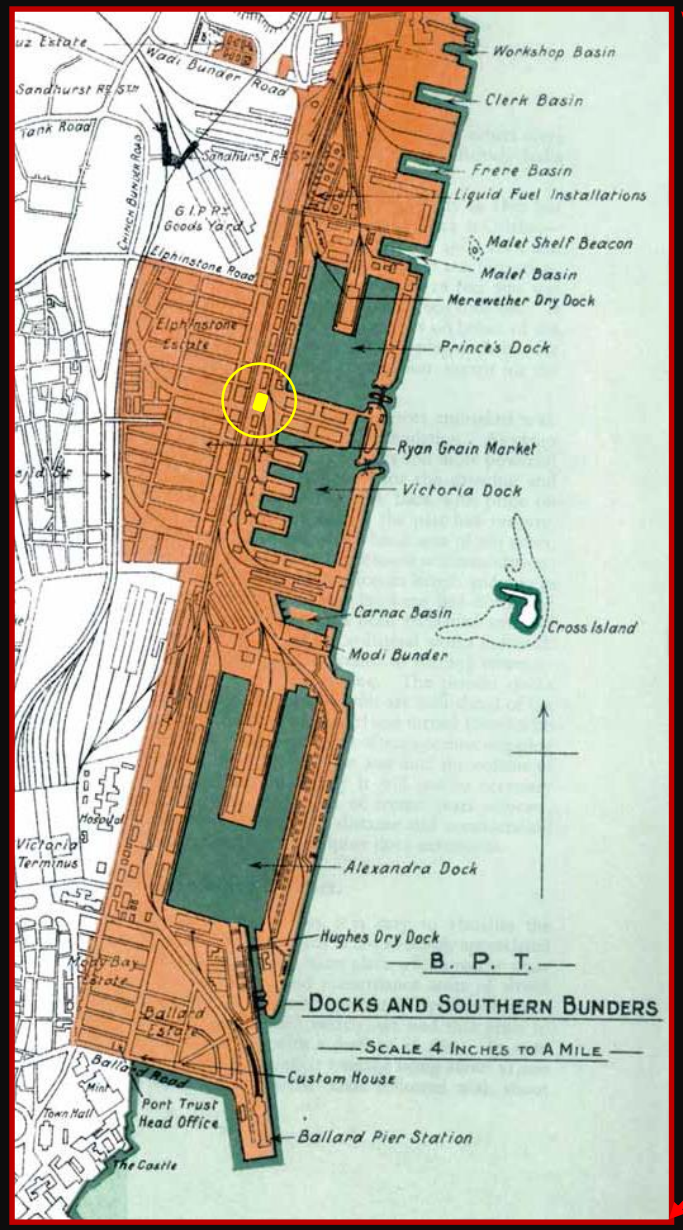
BOMBAY PORT TRUST was established in June 26, 1873

Government dry Docks were built between 1748-1811

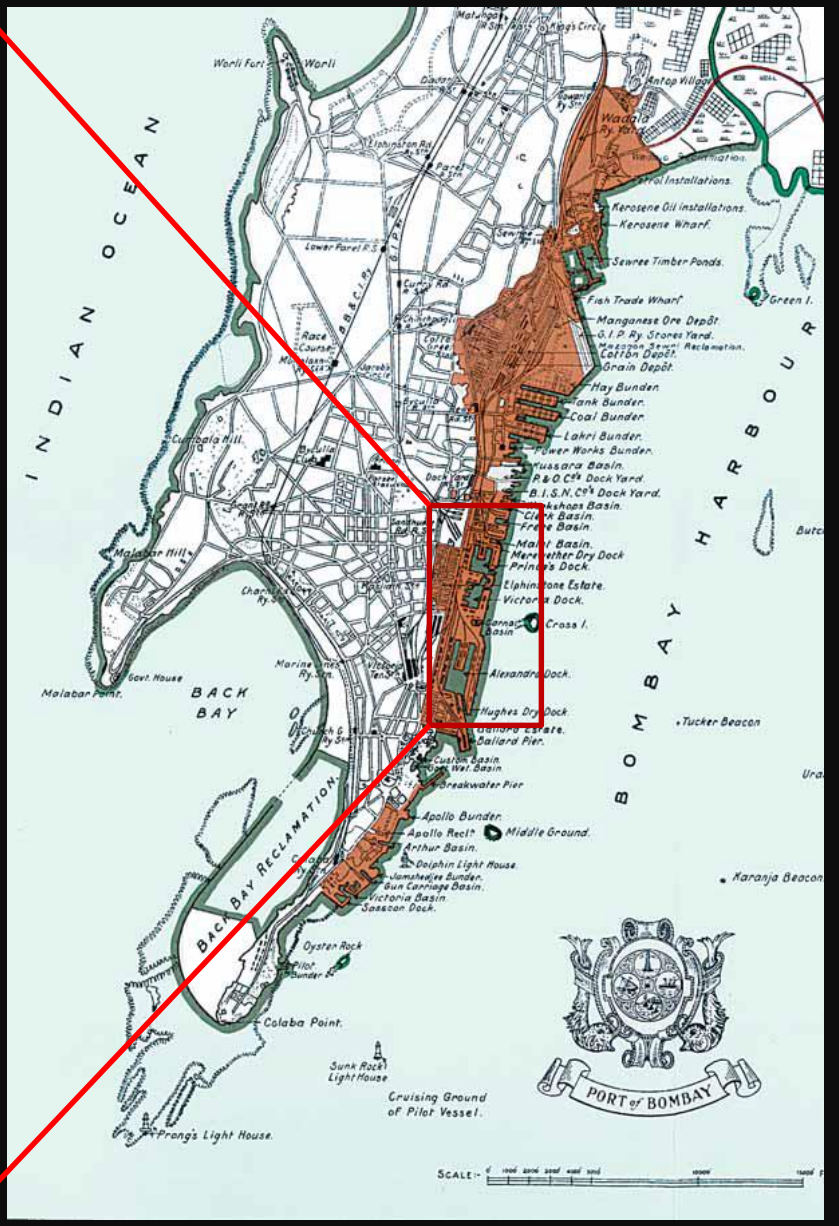
Sassoon Dock being the first private Wet dock was built by Sir David Sassoon in 1875.

Prince's dock was opened in 1880, Victoria Dock in 1888 and Alexandra Dock (later Indira) in 1914

Hughes dry dock constructed in 1950



Southern Docks of Bombay Harbour



Docks of Bombay Harbour

Bombay Port Trust (BPT) 1938

Aerial view of Alexandra dock entrance and the Hughes dry dock

Aerial view of Prince's and Victoria Dock with Carnac Bunder in Foreground, 1938

REGENERATING MUMBAI'S PORTLANDS

IMC-APLI MUMBAI

Introduction

Access to ALL

Sports, Health, Education facilities open for all

Parks, Museums, Libraries etc for All

Transit Oriented Design

integrated mobility

Pedestrian and cyclist friendly

Walking time to transit max. 10 minutes

Water front to remain public

Human scale : First People then roads

Access for ALL

Standing together as One MUMBAIKAR Community

ME MUMBAIKAR - MY VOICE - MY CITY

A Citizens Vision Plan

Opportunity Mumbai:

Redeveloping the PortLands for a liveable Mumbai

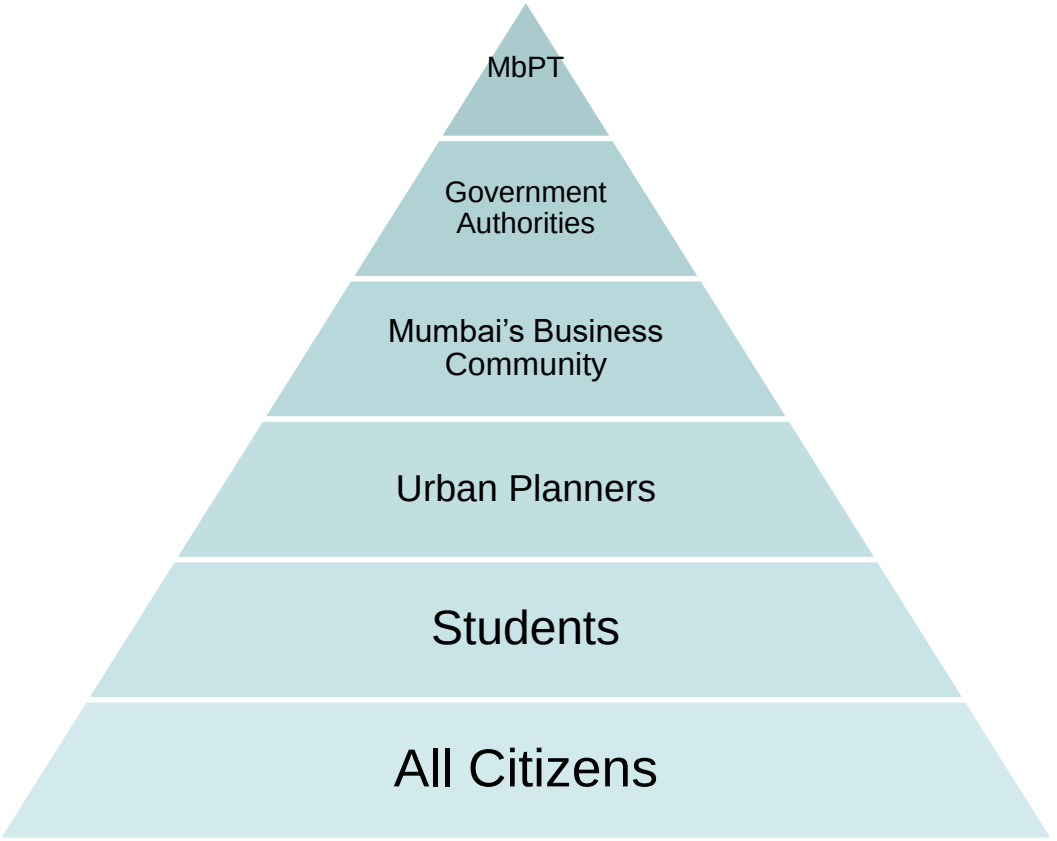
आपली MUMBAI

Re-imagining Mumbai

APLI Mumbai - A Port Lands Initiative By Citizens To Re-Imagine Mumbai

Introduction

A COLLABORATIVE & CONSTRUCTIVE MULTI-STAKE HOLDER INVOLVEMENT



APLI Mumbai - A Port Lands Initiative By Citizens To Re-Imagine Mumbai

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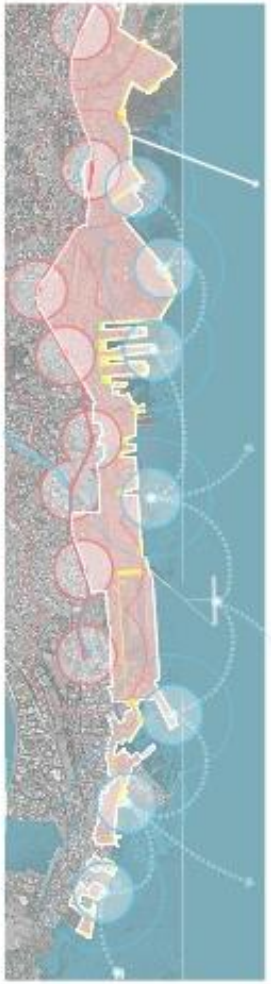
Neighbourhood for Living

Transit Oriented Development

Public Water Front



Highlights

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Parks, Museums, Libraries etc for All

Transit Oriented Design

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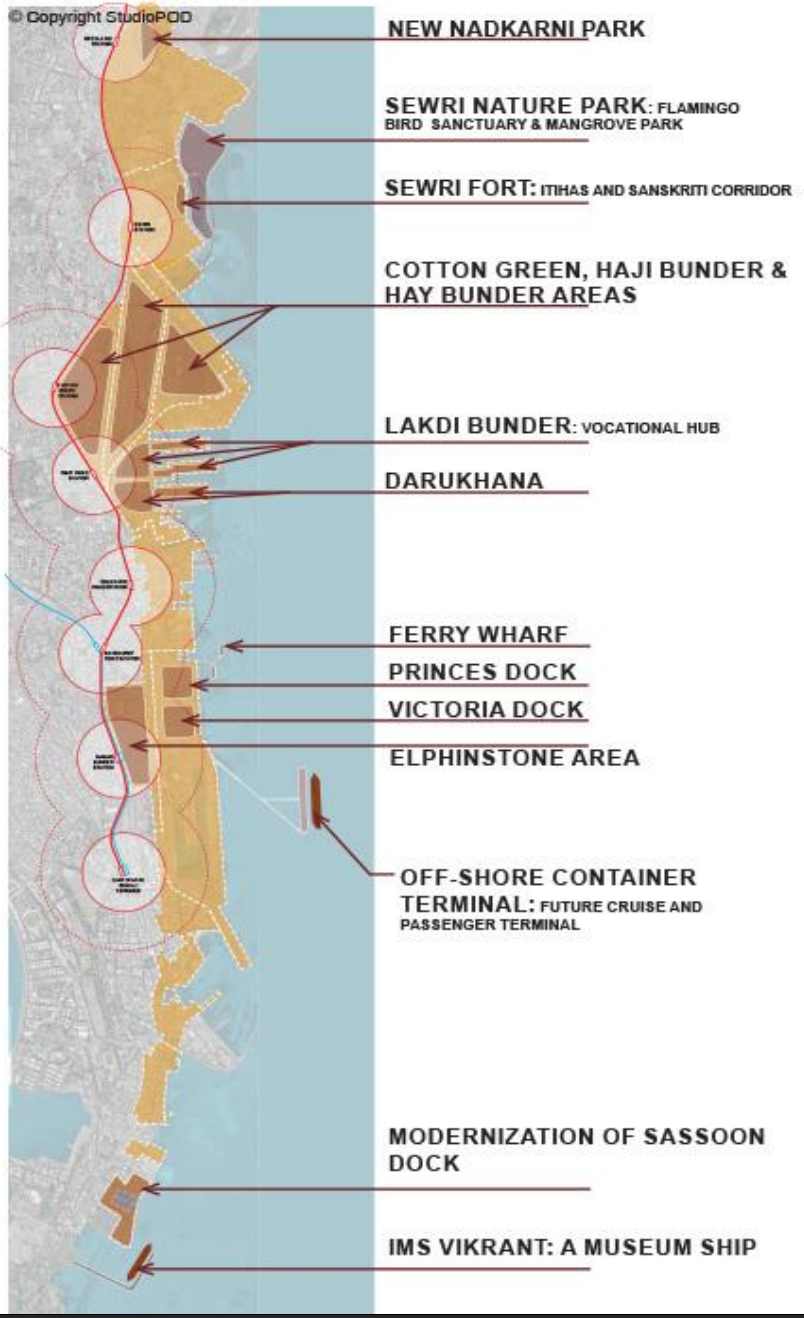
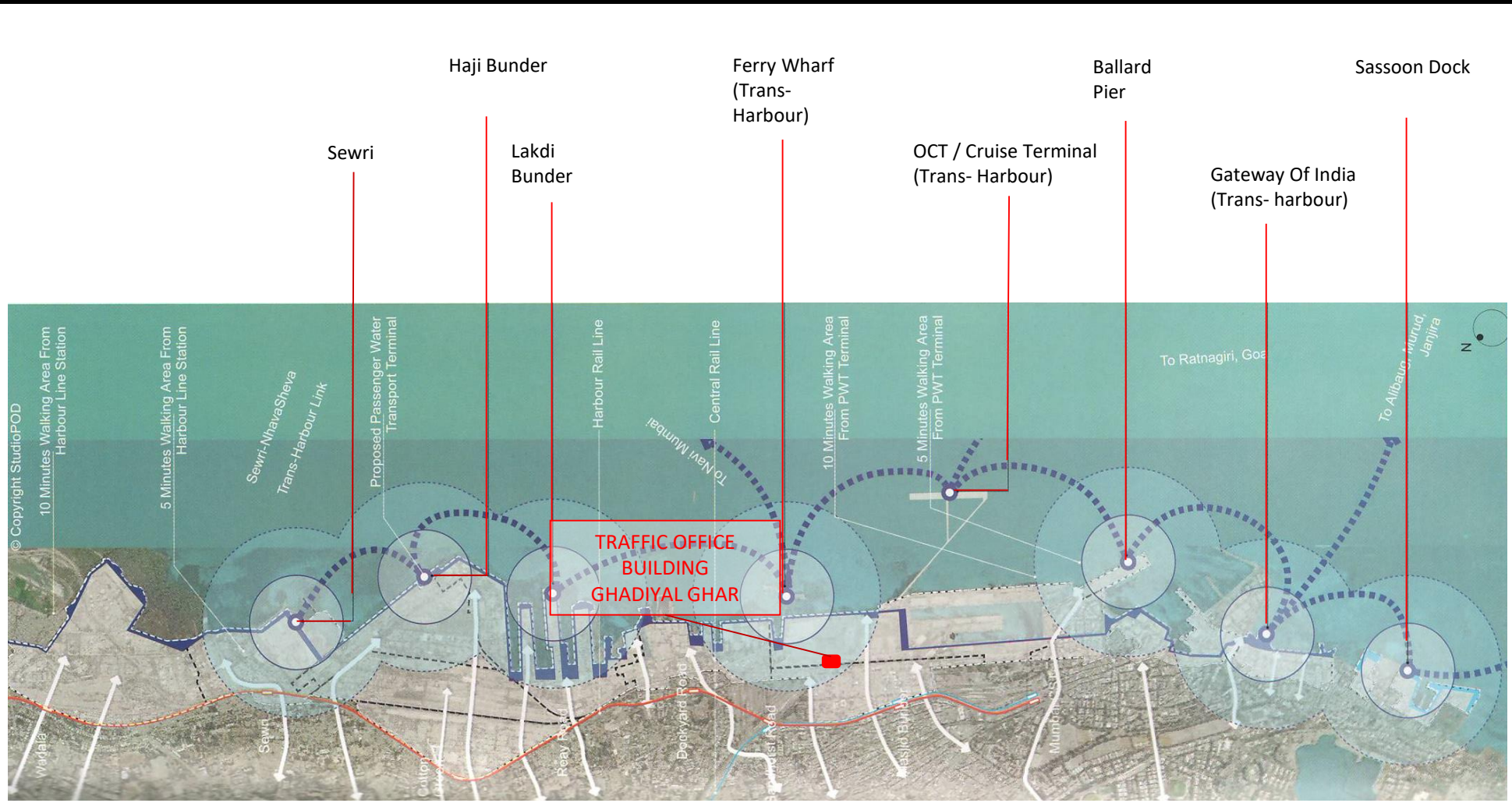
ME MUMBAIKAR - MY VOICE - MY CITY

Area Under Consideration

Creating 12 Neighbourhoods



Highlights: Vision for Water Transport



Highlights: Vision for Port Lands Neighbourhoods

New Nadkarni Park
Affordable housing for PAPs

Haji Bunder & Hay Bunder
Portland's University & Sports city

Prince's Dock
Coastal Vessels
Berthing & Repairs

Indira Dock
International Cruise terminal passenger Water Terminal Hub Strategic Dry Dock

Sewri Nature Park
Flamingo Bird Sanctuary and Nature park

Lakdi Bunder
Vocational Hub & Sea cadet Corps

Ferry Wharf/ Bhaucha Dhakka
Water Transport Hub

Victoria Dock: Marina

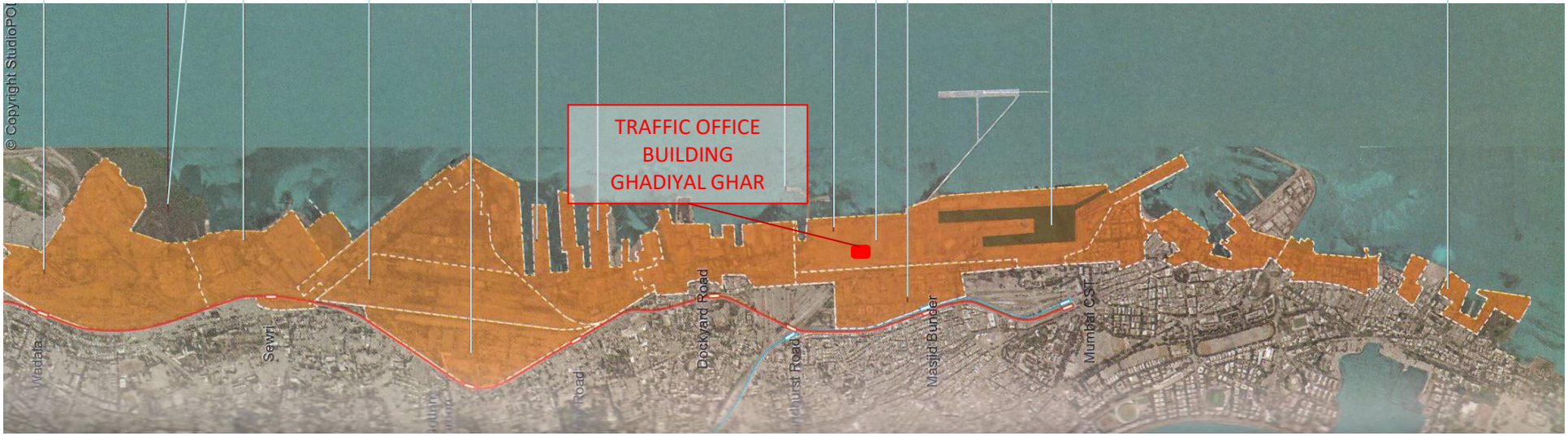
Sassoon Dock
Seafood Processing centre

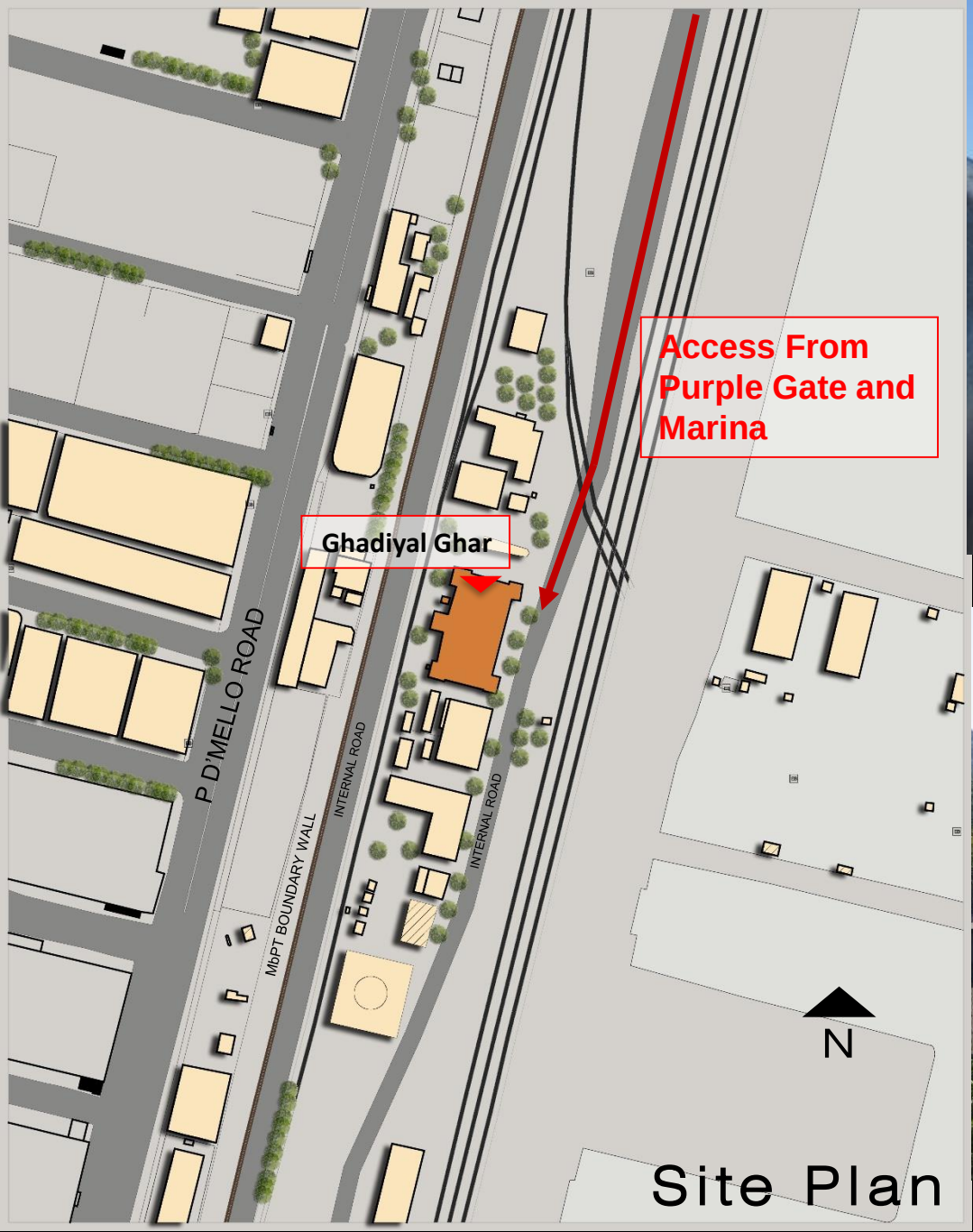
Sewri Fort
Ithias & Sanskriti corridor

Cotton Green
Global BRICS Headquarter

Darukhana
Water sports & Maritime Trade Museum

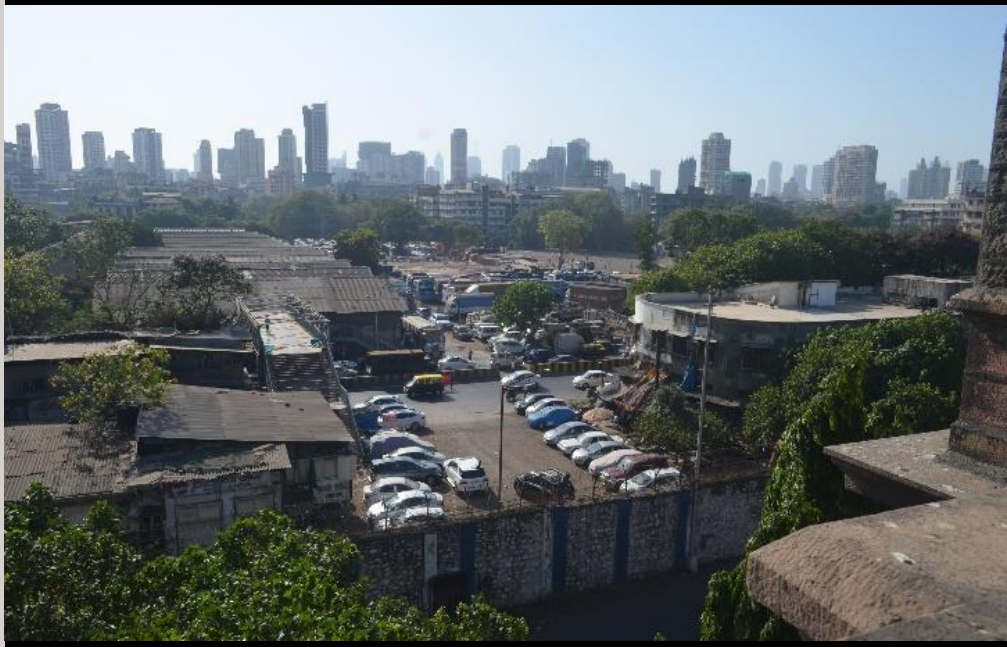
Elphinston Estate
Incubation Hub for Entrepreneurs





Site Plan

View from Ghadiyal Ghar – Looking towards North (Purple Gate)



View from Ghadiyal Ghar – Looking towards West (P D'Mello Road)

TIME BALL BUILDING/ TRAFFIC OFFICE BUILDING

MARITIME MUSEUM FOR MUSEUM

Traffic Office Building

The Dock Traffic office building (Prince's and Victoria Docks) – Ghadiyal Ghar, name derived owing to this Clock Tower

Built by the Bombay Port Trust under Engineer In-charge Ormiston

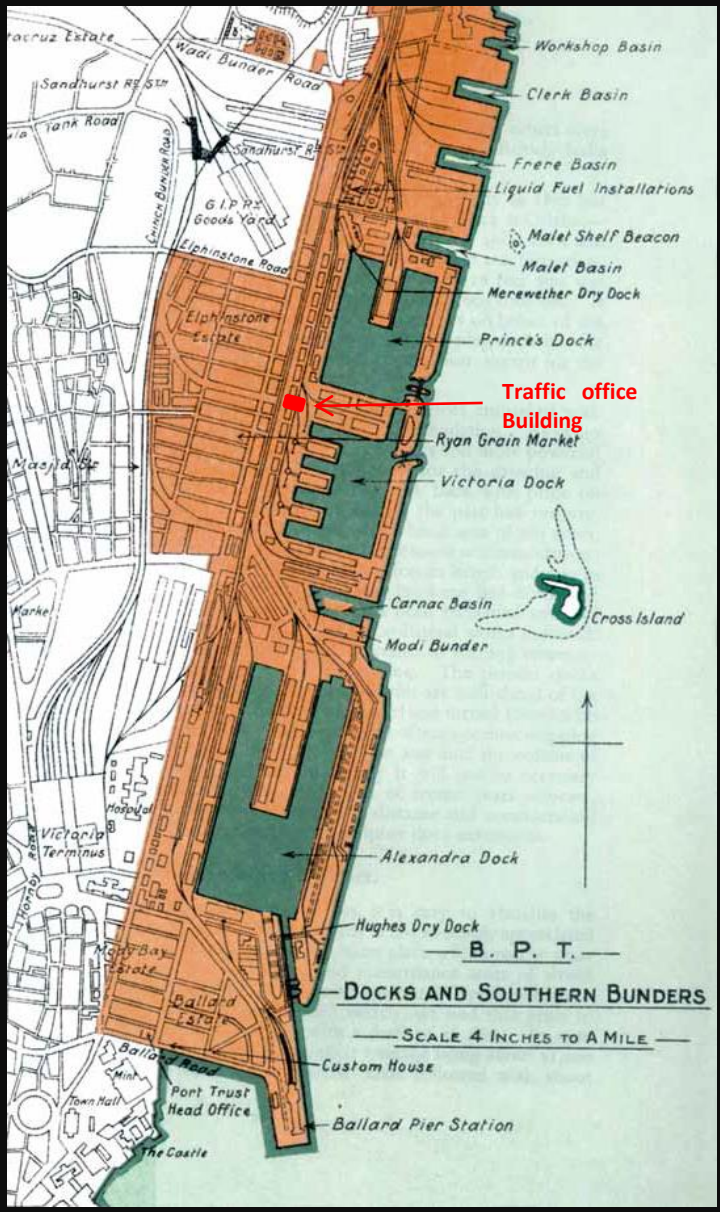
Commenced in January 1888, and completed in June 1890.

The building has a large turret containing a clock and surmounted by a time-ball which used to fall daily at noon. The watch operated for the last time on the day of explosion on 1944

Constructed using Basalt stone.

Three storeys high houses the offices of Dock Superintendent, Traffic Manager, Audit and the departmental staff officers. The top floor had the quarters of Dock Master.

Traffic Office (Time ball Building) at Prince's & Victoria Dock



Docks of Mumbai

Traffic Office Building –Timeball

The Time ball is time signalling device

It consists of a large, brightly painted wooden or metal ball that used to drop at a predetermined time.

Clock Tower Turret and its time ball

Victoria Docks Explosion 1944

The BPT railway suffered severe damage during the explosion, Ghadiyal Ghar in background

Memorial at P&V Docks

14 April 1944 - The great explosion of Fort Stikine in Victoria dock carrying explosives during the second world war

A memorial erected (Shipwreck) in the honour of those who died in the dock in the foreground of Traffic Office building

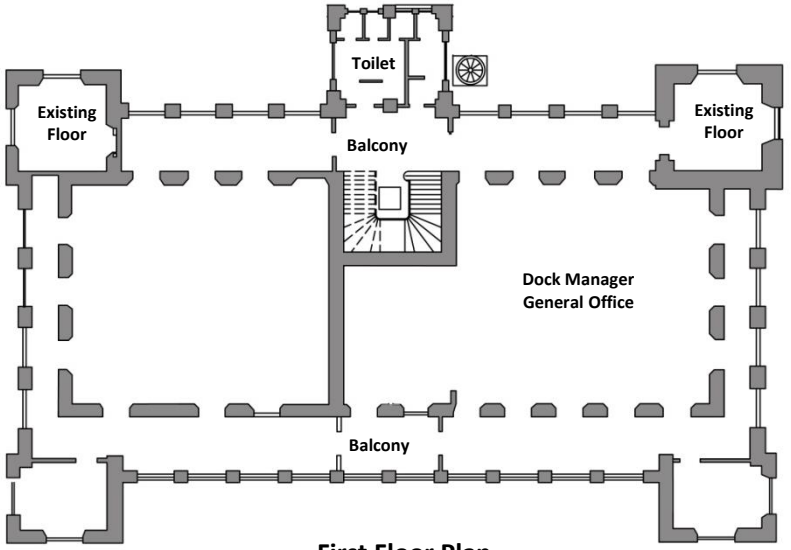
The day of explosion is now observed as the Bombay Fire Service day

Memorial Constructed outside the fire Brigade Headquarter, Byculla

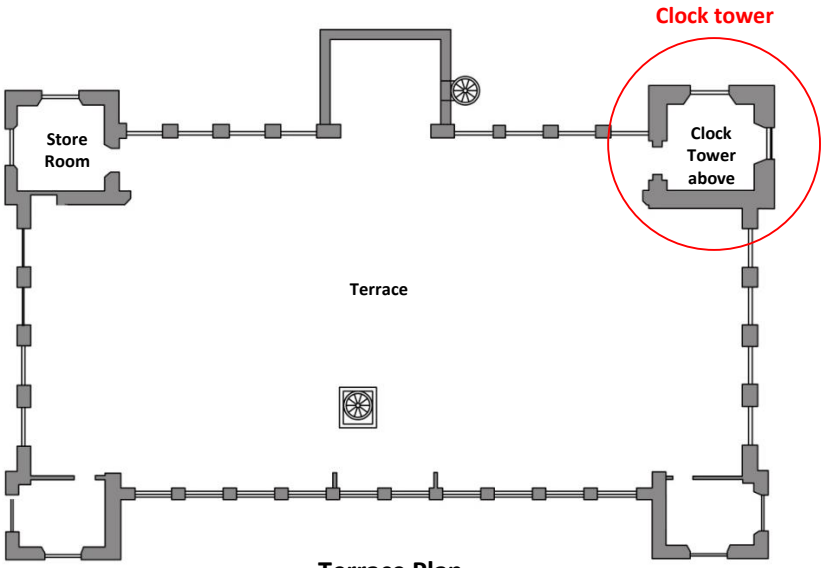
Shipwreck Memorial in front of Traffic Office (Time ball Building) at Prince's & Victoria dock (1940-60s picture)

Floor Plans dated September 1944

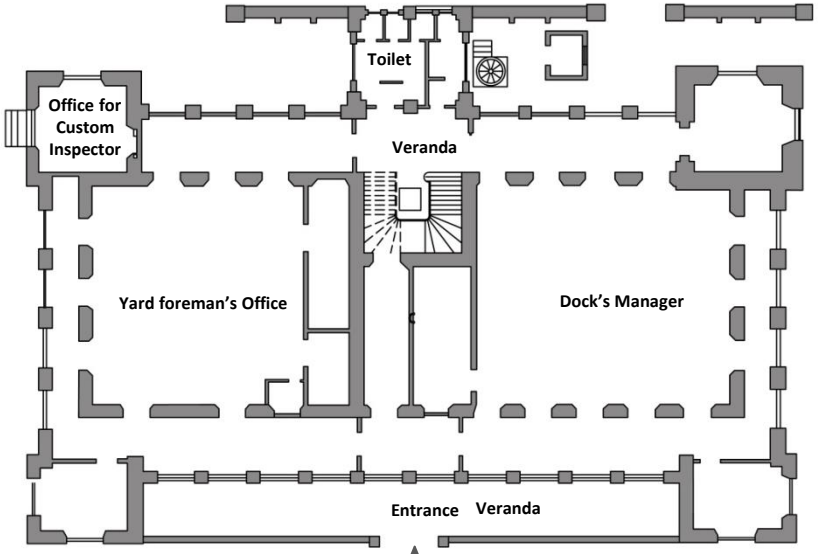
Total Built-up 24000 sq.ft approx.



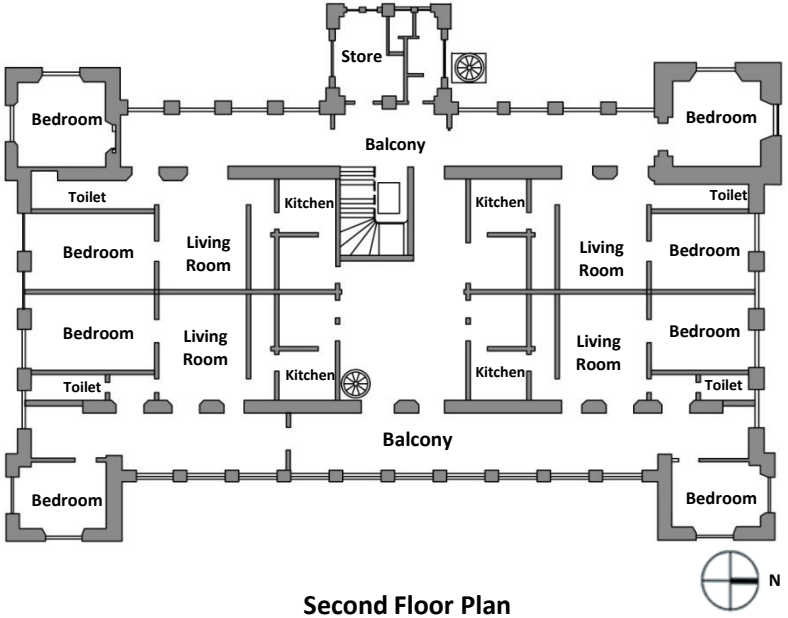
First Floor Plan



Terrace Plan



Ground Floor Plan



Second Floor Plan

Exterior (April 2018)

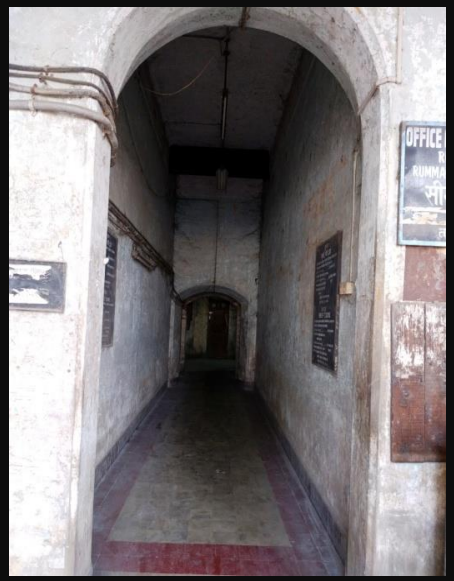
Clock Tower from Terrace

Traffic Office (Time ball Building) from P D'Mello Road

Terrace

Entrance Facade of the Building (inside MbPT

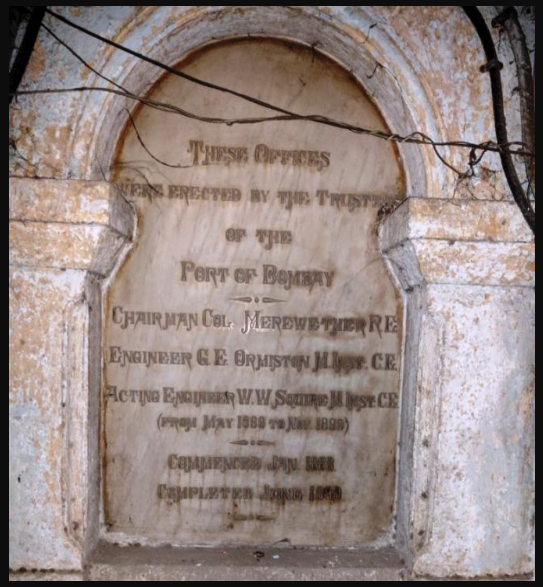
Interior (April 2018)



Entrance Facade of the Building

Main Staircase

Ground floor Hall



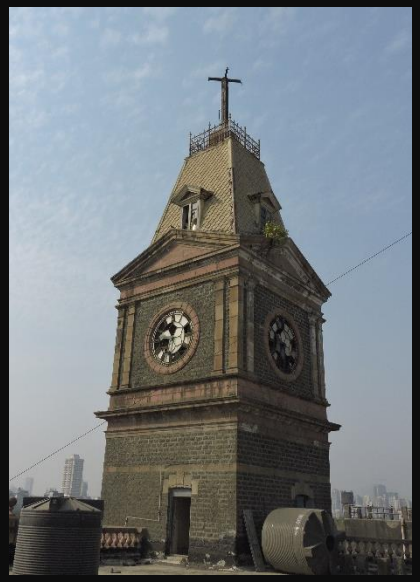
Traffic Office (Time ball Building) Plaque

First Floor Balcony

First Floor Hall

Clock Tower Interior (2016)

Credit: Mohan Narayan



External view

Time ball at Clock Tower Apex

Clock Mechanism

Clock from inside

Clock Mechanism

CONSERVATION OF TRAFFIC OFFICE BUILDING

PRESERVATION	RESTORATION	RETROFITTING	SERVICES UPGRADE	INTERIORS FOR MARITIME MUSEUM

STAGE I BUILDING DOCUMENTATION

CULTURAL SIGNIFICANCE	MEASUREMENT SURVEY FOR AS-BUILT DRAWINGS	ARCHIVES	TYPE OF STRUCTURE, MATERIALS & CONSTRUCTION, SPECS & TECHNIQUES	PAST WORKS

STAGE II BUILDING CONDITION ASSESSMENT & ANALYSIS

VISUAL CONDITION MAPPING	ARCHITECTURAL DEVIATION (ORIGINAL VS ADHOC)	STRUCTURAL AUDITS & ANALYSIS	FUNCTIONAL AUDITS (FIRE SAFETY, ACCESSIBILITY, ENERGY EFFICIENCY, ETC)	MEP ANALYSIS	STANDARDS & CODES	FUTURE NEEDS

STAGE III FORMULATION, PROPOSAL & FUNDING

CONSERVATION SOLUTIONS	**SERVICES UPGRADE**	**INTERIORS FOR MARITIME MUSEUM**	**PRIORITY LIST & LOGISTICS**	**COSTING**	**PROJECT FUNDING**

STAGE IV PROPOSAL FINALIZATION & APPROVAL

CLIENT	LOCAL MUNICIPAL AUTHORITY & OTHERS

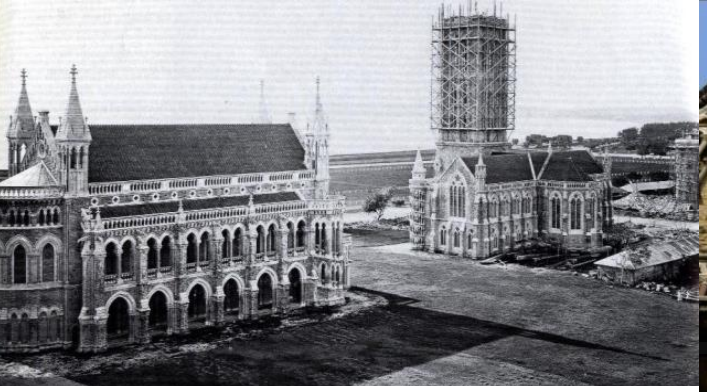
STAGE V IMPLEMENTATION

TENDER	EXECUTION	SITE MONITORING

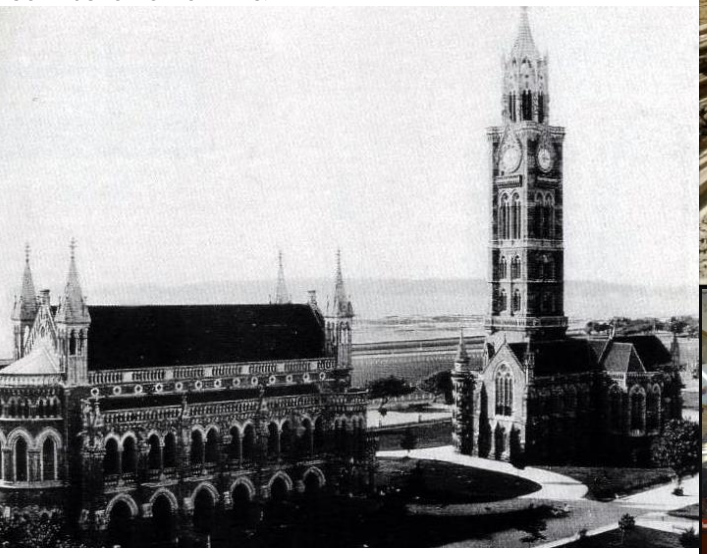
AFTER COMPLETION – ASSISTING CLIENT FOR DEVELOPING FUTURE MANAGEMENT STRATEGIES AND MAINTENANCE

RAJABAI CLOCK TOWER
&
UNIVERSITY OF MUMBAI LIBRARY BUILDING

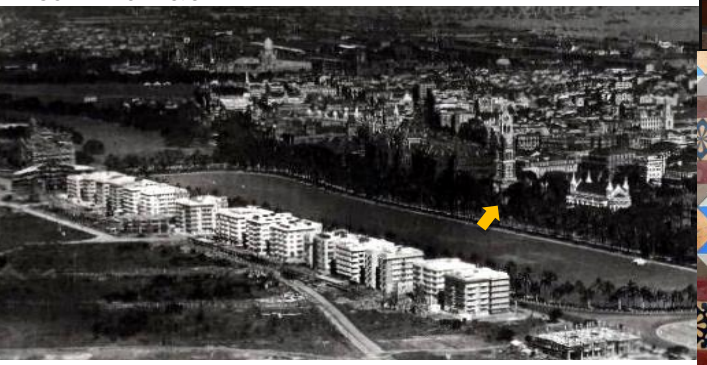
MUMBAI UNIVERSITY, FORT, MUMBAI



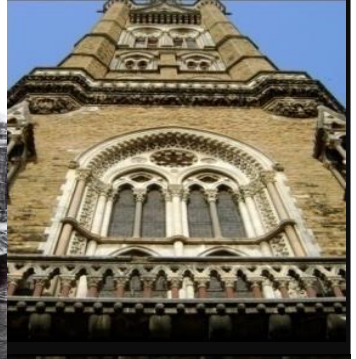
CONTRUCTION OF TOWER 1874

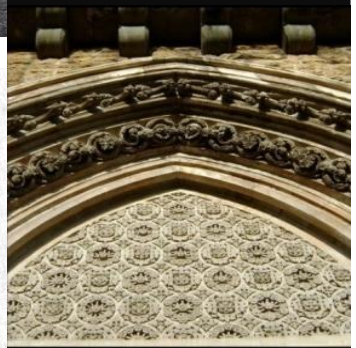


AT COMPLETION 1878

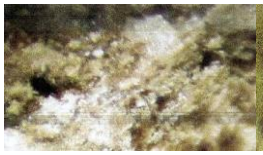


OVAL MAIDAN 1938





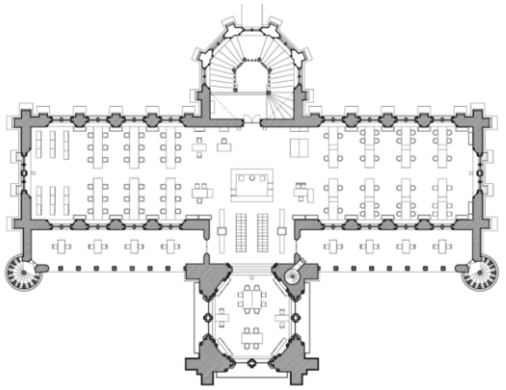
SAMPLE FOR TESTING STEEL & WOOD

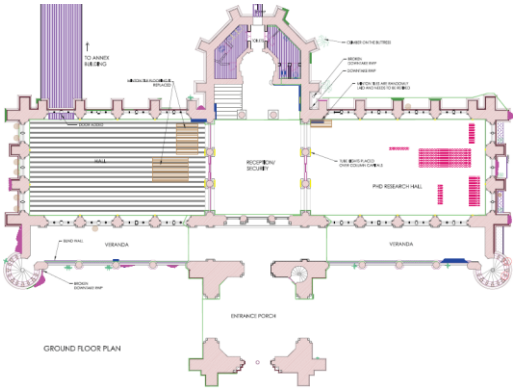


DAMAGED WOODEN SECTION

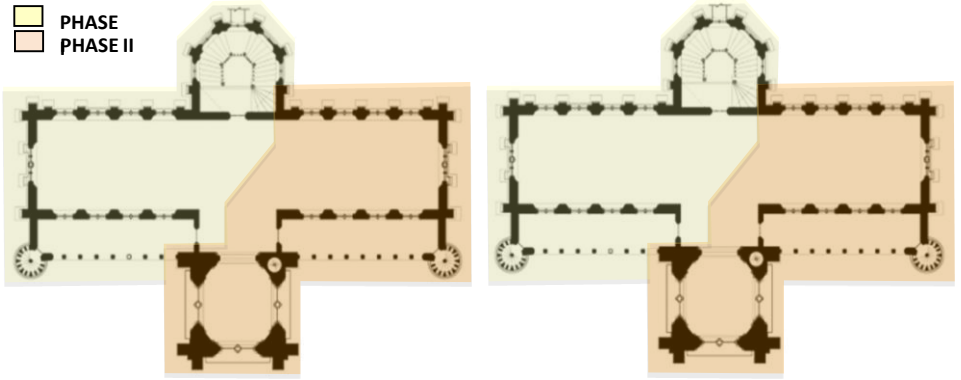
GOOD QUALITY WOODEN SECTION

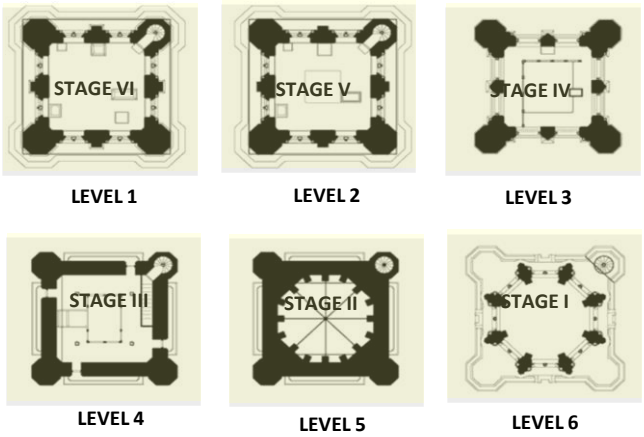
FIRST FLOOR FRAMEWORK IN STEEL GIRDERS WITH BURMA TEAK LATH PLASTER
SURFACE STEEL FOUND RUSTED, IN DIRCT CONTACT WITH LIME





MUMBAI UNIVERSITY CAMPUS
CONVOCATION HALL
RAJABAI CLOCK TOWER & LIBRARY BUILDING
K B PATIL MARG
OVAL MAIDAN
© Google Earth


PHASE
PHASE II


STAGE VI
STAGE V
STAGE IV
LEVEL 1
LEVEL 2
LEVEL 3
STAGE III
STAGE II
STAGE I
LEVEL 4
LEVEL 5
LEVEL 6

RESTORATION OF RAJABAI CLOCK TOWER

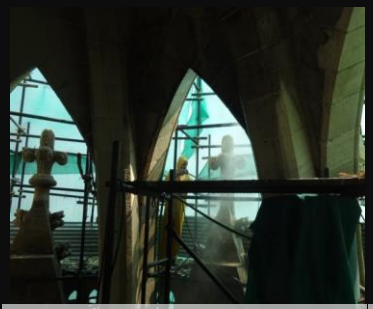
DURING RESTORATION – FAÇADE CLEANING

BEFORE

AFTER

BEFORE

AFTER


JETS SPRAY CLEANING

LIME REPOINTING

LOUVER REPAIR WORKSHOP AT 196 FEET

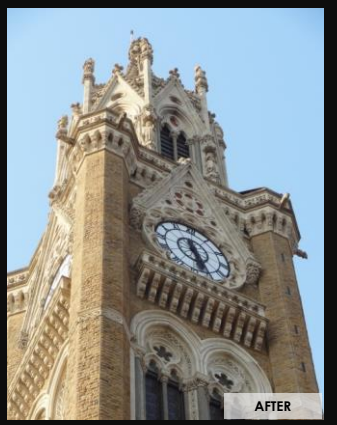
BEFORE

AFTER

SPLICE REPAIR TO RESTORE TW FLOOR JOISTS

INTERNAL LIME PLASTER REPAIR (BEFORE & AFTER)

BEFORE

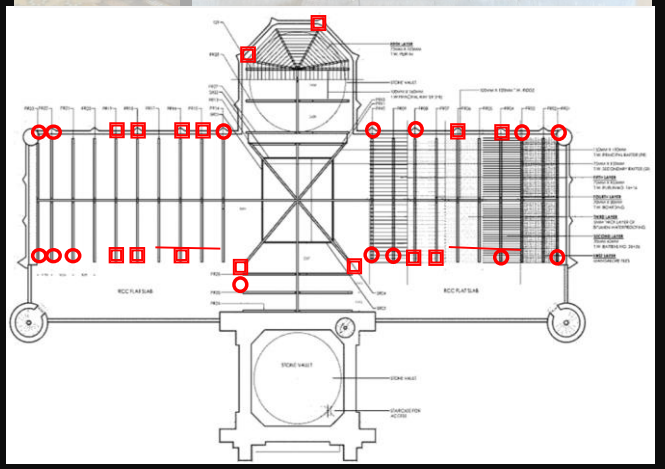

AFTER

PAPER POULICING FOR DELICATE CLEANING OF LIME STONE DETAILS

BEFORE

AFTER

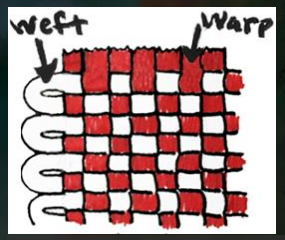
RESTORATION OF THE UNIVERSITY OF MUMBAI LIBRARY BUILDING



CSMVS TEXTILE GALLERY

CSMVS MUSEUM, FORT, MUMBAI

WEAVING



Weaving *involves using a loom to interlace two sets of threads at right angles to each other : the* ***warp*** *which runs longitudinally and the* ***weft*** *that crosses it.*

\+

DYEING

= **CONCEPT**

The ***most common dye colors*** *of:*

blue, — blue

yellow, — yellow

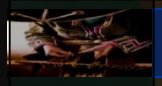
red, — red

violet, and — violet

green, — green

were obtained from plants and minerals native to the subcontinent.

ENTRANCE



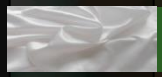
INTRODUCTION — blue

FABRIC OF LIFE — yellow

RELIGION — red

ROYAL COSTUMES — violet

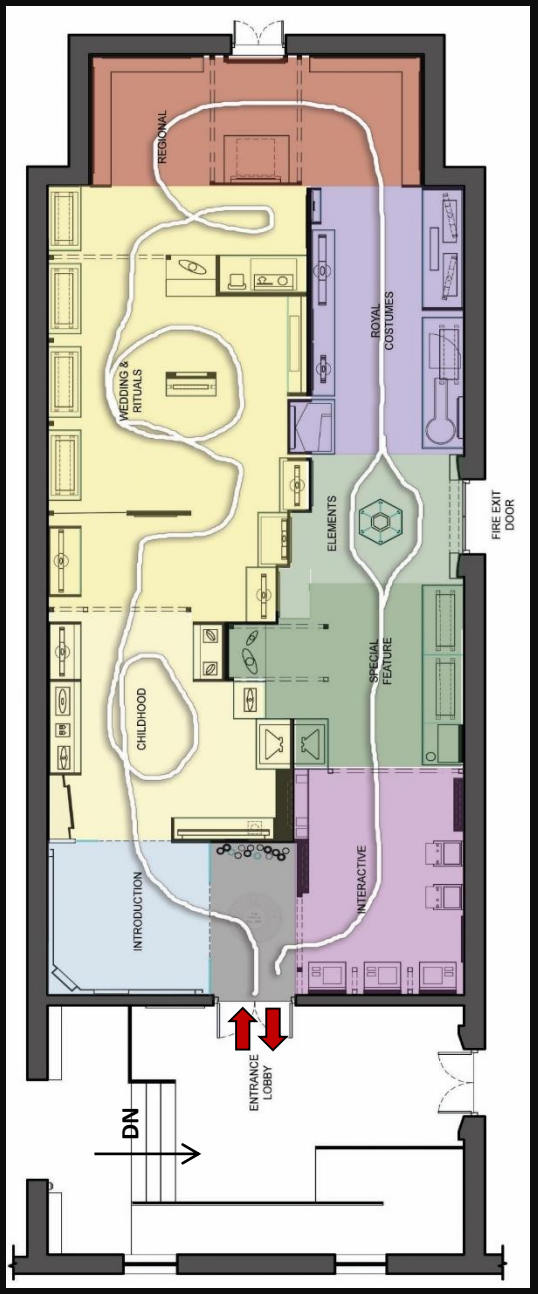
ELEMENTS



SPECIAL FEATURE — green

Key design concept emerged during the research, design and consultation process.

It revolves creating a gallery that showcases in an **INNOVATIVE** and **INTERACTIVE** manner the vast collection of textiles of CSMVS. Based on the above the Museum interior space shall be divided into the following sections :



INTRODUCTION FABRIC OF LIFE RELIGION

ROYAL COSTUMES ELEMENTS SPECIAL FEATURE INTERACTIVE

Otni
and
Balni

INDIA & THE WORLD

CSMVS MUSEUM, FORT, MUMBAI

INDIA AND THE WORLD

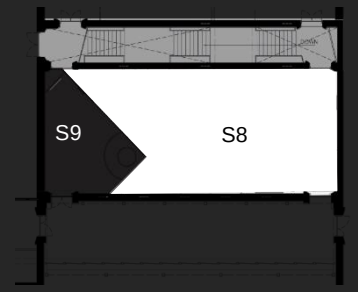
A HISTORY IN NINE STORIES

The exhibition tells the viewers nine stories of important historical eras in Indian history and what was going on in the world at the same time.

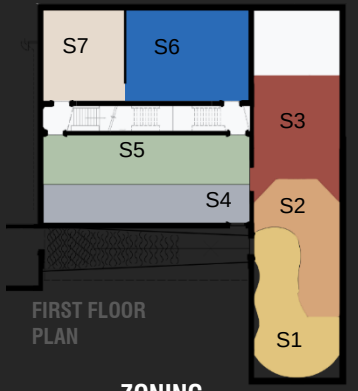
The aim is to engage the visitor in discussion; exploring not only similarities, but also the differences which demonstrate respect for parallel systems of knowledge, as well as present opportunities to learn something new. This helps us understand how our country India relates to the world today.

S1 SHARED BEGINNINGS
ANTIQUE GOLD
S2 FIRST CITIES
COPPER BROWN
S3 EMPIRE
MAROON
S4 STATES AND FAITH
SILVER GREY
S5 PICTURING THE DIVINE
GREY GREEN
S6 INDIAN OCEAN TRADE
DEEP BLUE
S7 COURTLY CULTURES
LAVENDER
S8 QUEST FOR FREEDOM
EGGSHELL WHITE
S9 TIME UNBOUND
BLACK

COLOUR PALETTE



SECOND FLOOR PLAN



FIRST FLOOR PLAN

ZONING

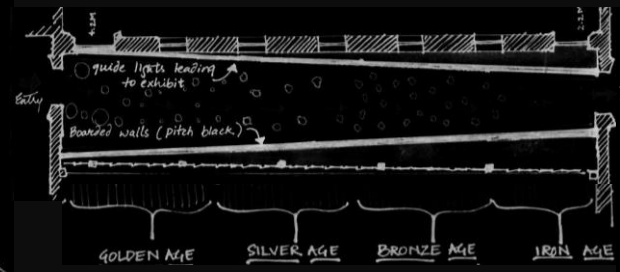
Creation of

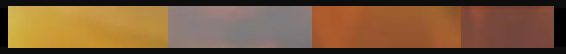
labyrinth like narratives

that give context to

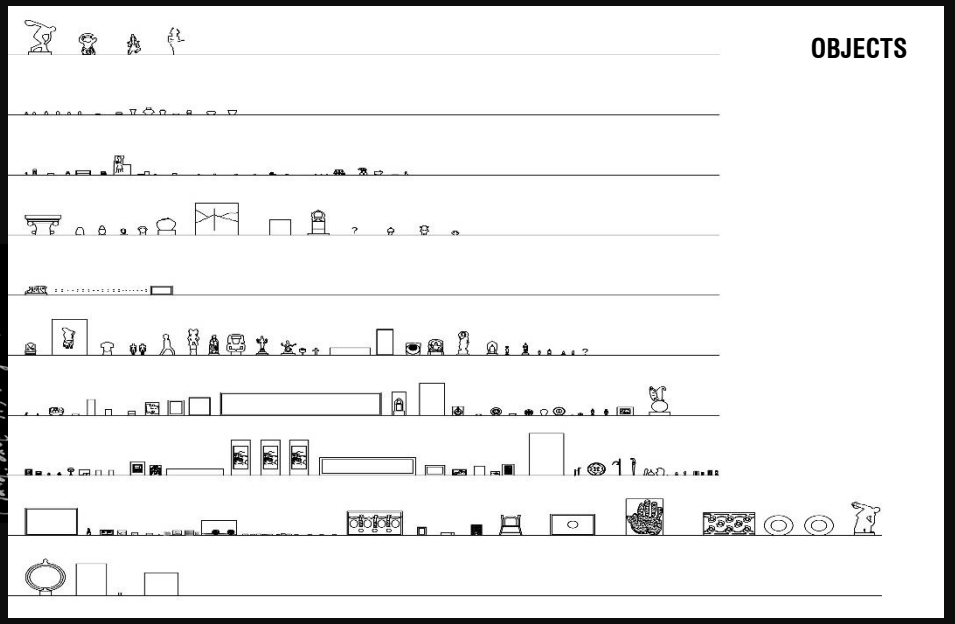
individual objects

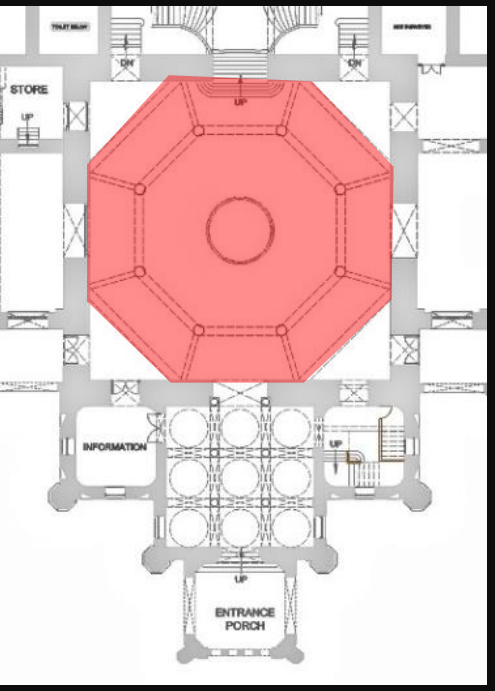
PREAMBLE



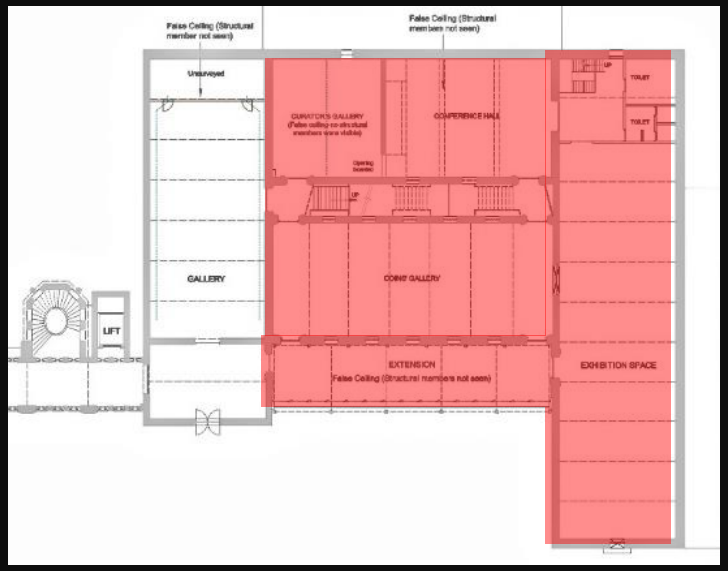


OBJECTS



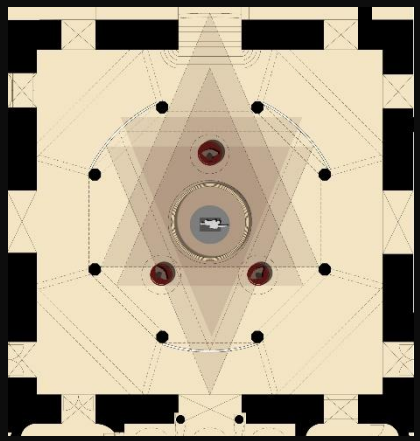


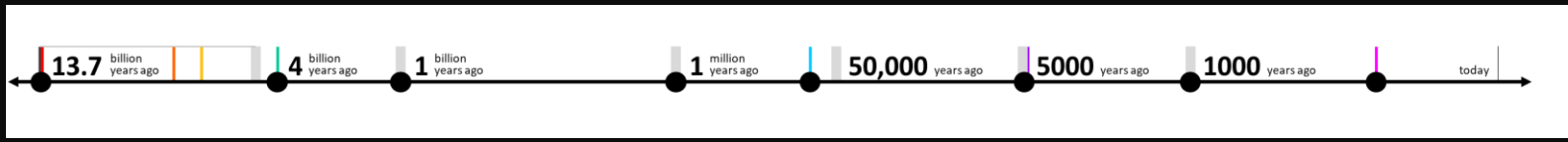
GROUND FLOOR



FIRST FLOOR

SECOND FLOOR





On Earth

TIME

appears to move in a straight ray

from start-point linearly to an infinite future.

ROTUNDA

S1- SHARED BEGINNINGS

S2- FIRST CITIES

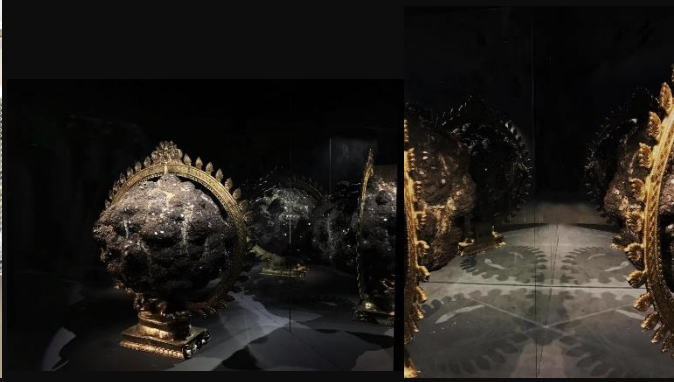
S3- EMPIRE

S4 & S5- STATES & FAITH, PICTURING THE DIVINE

S6- INDIAN OCEAN TRADE

S7- COURTLY CULTURES

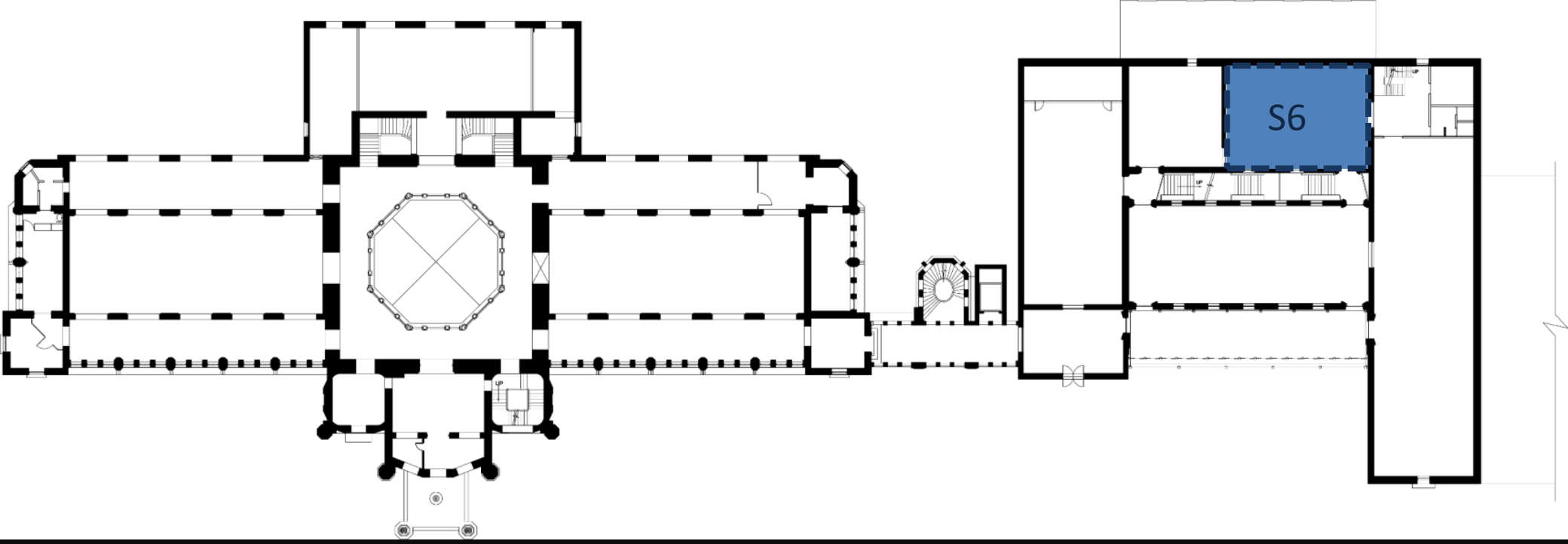
S8 – QUEST FOR FREEDOM



S9 – TIME UNBOUND

INDIA & THE WORLD

INDIAN OCEAN TRADE GALLERY



- ***Complex networks*** *existed that saw raw materials and products traveling extensively, merchants and sailors living and working far from their native homes .*

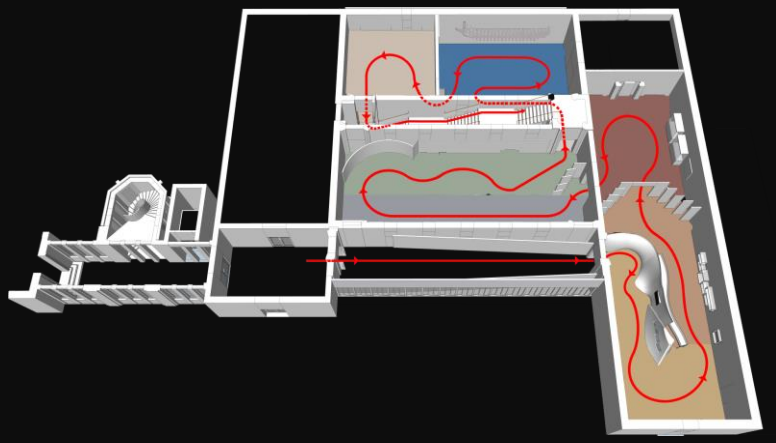
- ***Trade & travel*** *across the Indian Ocean, linking East and South East Asia, with South Asia, the Middle East and Africa.*

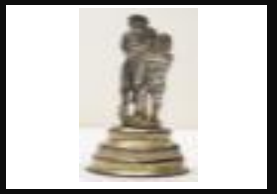
- *Creation of an* **economic system linking Asia, Africa and Europe** *before European trade and empire.*

S6

INDIAN OCEAN TRADE

DEEP BLUE



ROYAL BARGE	COOKING POT	RHINOCEROS, AFTER DURER	TOMBSTONE OF FRANCISCO BARBOSA DE MAGALHAES
POSEIDON	CHINESE BLUE AND WHITE JAR	ROMAN PEPPER POT 	COIN OF EMPEROR THEODOSIUS
ISLAMIC GRAVESTONE	BOTTLE	CHINESE DISH	TEXTILES EXCAVATED FROM FUSTAT IN EGYPT
ASTROLABE	INDIAN CLOTH FROM EGYPT	PILGRIMAGE MANUAL: FUTUH AL-HARAMAYN	HEIRLOOM TEXTILE
ROMAN NECKLACE	KALAMKARI TEXTILE	PELICAN ALTARPIECE	

OBJECTS

Indian Ocean Traders

Images & References Credits

- From Vision to Action Regenerating Mumbai Portland Report, IMC-Apli Mumbai
- StudioPOD website
- Tides of Time, M K Kamath
- The Port of Bombay, MbPT
- Evolutionary Mumbai: Making of the 'Island City'' is part of a series of essays analysing the role of land reclamation in the (re)formation of eight coastal cities: Dubai, Mumbai, Singapore, Hong Kong, Incheon, Tokyo, Amsterdam, and Venice

SNK