

2nd METROPOLITAN EXCHANGE



WORLD BANK



MMRDA

Global Lab
MUMBAI
METROPOLITAN REGION

DECEMBER 11-14, 2013

Welcome Note



Greetings from Mumbai and welcome to the Global Lab on Mumbai Metropolitan Regional Plan. We hope to make the participants' stay and lab experience memorable. For the benefit of those visiting Mumbai for the first time, we Mumbaikars are identified as literate, well meaning, friendly but non-interfering and disciplined citizens. We are at your service from 10-15th December, 2013 .

We hope to make your participation in the lab worthwhile for the Mumbai Metropolitan Region as well as for you. Together let us make the wish come true.


U.P.S. Madan, I.A.S
Metropolitan Commissioner
MMRDA

MUMBAI GLOBAL LAB ON REGIONAL PLANNING

December 11th -14th, 2013

Mumbai, India

It is evident that metropolitan and regional development framework holds the key to conservation of resources and creation of polycentric spatial orders.

The Mumbai Lab is the second in the series of Global Labs that were launched in New York in April 2013. While the New York lab was aimed at knowledge exchange, the Mumbai Lab aims to provide hands-on experience at statutory spatial development planning at regional scale.

The Third Regional Plan for Mumbai Metropolitan Region is under preparation and is expected to be published by March-April 2014. Thus, the Mumbai Lab is a live exercise and the international perspective can give the planning process a strategic advantage.

Let us hope to continue the legacy of Global Labs in future as well.

The Hosts

The World Bank

The Bank has a large presence in India. In the past, the Bank has supported projects in the fields of education, health and rural livelihood & rural infrastructure.

In MMR, the Bank has supported the following projects :

- Mumbai Urban Development Project (MUDP) with focus on new shelter for low income groups, infrastructure development and capacity building
- Mumbai Urban Infrastructure Project (MUTP) with focus on railway network augmentation and improvement. The MUTP project is being undertaken in phases and is currently ongoing.

MMRDA

Mumbai Metropolitan Region Development Authority (MMRDA) was established in accordance with the Mumbai Metropolitan Development Act, 1974, on 26th January, 1975. Since its inception, MMRDA is engaged in long term planning, promotion of new growth centers, implementation of strategic projects and financing infrastructure development. The Regional Plan provides for a strategic framework of MMR's sustainable growth.

The MMRDA prepares plans, formulates policies and programs, implements projects and helps in directing investments in the Region. The broad responsibilities of MMRDA include:

- Preparation and implementation of Regional Development Plans
- Providing financial assistance for important regional projects
- Providing help to local authorities and their infrastructure projects
- Coordinating execution of projects and/or schemes in MMR
- Restricting any activity that could adversely affect appropriate development of MMR, etc.

In particular, MMRDA conceives, promotes and monitors key projects for developing new growth centres aiming at improvement in sectors like transport, housing, water supply and environment in the Mumbai Metropolitan Region.

The Programme

Arrival - 10th December 2013

18.00 – 19.30 Registration

19.30 – 21.30 Informal Dinner and Introduction of Participants

Day 1- 11th December 2013

08.00 – 18.00 Guided tour of Mumbai Metropolitan Region representing the study questions to be addressed during the lab

20.00 – 22.00 Working dinner and debriefing

Day 2 - 12th December 2013

09.00 – 09.30 Introduction to the Lab and the methodology

09.30 – 09.40 Introduction to Theme-1 :
Regional Information Systems for Planning & Action Research

09.40 – 10.50 City presentations

- Barcelona
- Rio de Janeiro
- Seoul
- New York
- Paris
- Chennai

10.50 – 11.30 Discussion on Theme 1

11.30 – 11.50 Tea

11.50– 12:00 Introduction to Theme 2 :
Regional Land Use and Development Promotion towards Equitable and Sustainable Urbanisation

12.00 – 13.10 City Presentations

13.10 – 13.50 Discussion on Theme 2

13.50 – 14.50 Lunch

14.50 – 15.00 Introduction to Theme 3 :
Institutions, Finance and Implementation Strategies for Regional Development

15.00 – 16.10 City Presentations

16.10 – 16.50 Discussion on Theme 3

16.50 – 17.10 Tea

17.10 – 17.30 Summary

Day 3 - 13th December 2013

09.00 – 10.00	Background and status of preparation of the Third Mumbai Regional Plan and challenges in thematic areas faced in MMR
10.00 – 10.30	Introduction to Hands-on Mumbai Regional Planning and formation of three joint working teams: i) Regional Information Systems for Planning and Action Research; ii) Regional Land Use and Development Promotion towards Equitable and Sustainable Urbanization and iii) Institutions, Finance and Implementation Strategies for Regional Development.
10.30 – 11.00	Tea
11.00 – 12.00	Phase I of team work. Setting the context by MMRDA, fine tuning problem statement, understanding the data
12.00 – 13.00	Phase II of teamwork. Consultations and setting the framework
13.00 – 14.00	Lunch
14.00 – 17.00	Phase III of team work. Detailed exercise and formulation of Strategies (Including Tea)

Day 4 – 14th December 2013

09.00 - 09.30	Morning Introductions and setting for the day
09.30 – 11:00	Phase IV of team work. Formulation of Recommendations
11.00 – 11.30	Tea
11.30 – 12.30	Phase V of team work – Preparation of Final Presentation
12.30 – 13.30	Lunch
13.30 – 14.00	Presentation on Regional Information Systems for Planning and Action Research
14.00 – 14.30	Presentation on Regional Land Use and Development Promotion towards Equitable and Sustainable Urbanization
14.30 – 15.00	Presentation on Institutions, Finance and Implementation
15.00 – 15.30	Tea
15.30 – 16.30	Conclusions and next steps
16.30 – 17.30	Presentation of the conclusions and next steps to the Metropolitan Commissioner, MMRDA
20.00 – 22.00	Final dinner and farewell to Lab Participants

The Participants

No	Participant	Institution	Team co-ordinator from MMRDA
The World Bank			
1	Victor Vergara	Lead Urban Specialist , The World Bank vvergara@worldbank.org	Uma Adusumilli Mobile: +91 9821637475 umaplanner@gmail.com
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5	Bhavna Bhatia	Regional Coordinator WBI, The World Bank bbhatia@worldbank.org	
6	Pronita Agrawal	The World Bank pagrawal@worldbank.org	
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8	Greg Clark	Lead Expert Group, Future of Cities Investigation greg@gregclark.com	Uma Adusumilli Mobile: +91 9821637475 umaplanner@gmail.com
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10	Oscar Armando Pardo Aragon	President, EMCALI oscarapardo@gmail.com	
Seoul, Korea			
11	Dr. Yeong-Hee Jang	Vice-President , The Seoul Institute, Seoul, South Korea twomay@si.re.kr , yhjang@si.re.kr	Amod Pandit Mobile:+91 9930276476 amodvp@gmail.com
12	Dr. Ji-in Chang	Assoc. Research Fellow, The Seoul Institute twomay_jiin@hotmail.com	



No	Participant	Institution	Team co-ordinator from MMRDA
Paris, France			
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14	Bertrand Lemoine	Public Research Director, National Center for Scientific Research bertrand.lemoine@ateliergrandparis.fr	
15	Eric Huybrechts	Expert, Reg. & Urb. Plng., The Institut d'Aménagement et d'Urbanisme Eric.Huybrechts@iau-id.fr	
Barcelona, Spain			
16	Antoni Vives Tomás	Deputy Mayor for Urban Habitat Barcelona City Council avives@bcn.cat	Avirat Inamdar Mobile: +91 8600868681 aviratinamdar@gmail.com
17	Maria Sisternas	Urban Projects Director	
18	Carme Gual	International Relationships, Urban Habitat, Barcelona City Council cgualv@bcn.cat	
19	Maria Buhigas San Jose	Urban Strategy Director, Barcelona Regional maria.buhigas@bcnregional.com	
20	MiquelPybus	Head of Urban Strategy, Barcelona Regional	
21	Andreu Ulied	M-Crit Co-Founder, Director	
Rio De Janeiro, Brazil			
22	Paulo Cesar Silva Costa	Superintendent of Urban Devp., State of Rio pcesar@obras.rj.gov.br	Mayura Gadkari Mobile:+91 9987535576 ar.mayurag@gmail.com
23	Vicente de Paula Loureiro	Dy. Secretary for Urban Devp., State of Rio vicente.suburbm@obras.rj.gov.br	
Chennai, India			
24	M. Sivashanmugam	Chief, Planner, Chennai Metro. Devp. Auth. sivashanmugamm@yahoo.com	Niketa Thakre Mobile: +91 9833412333 niketaplanner@gmail.com

Mumbai Metropolitan Region

The Mumbai Metropolitan region consists of Mumbai and its surrounding urbanising area extending over daily commuting distance. It covers 4355 sq.km which is nearly ten times larger than Mumbai city. MMR is composed of 17 big and small cities and about 950 villages. The 17 cities occupy 32% area of the region but housed 94 % of its population in 2011. About a fourth of its area is designated as forest and three river valleys offer a gifted hydrometric area.

The basic facts about Mumbai Metropolitan Region :

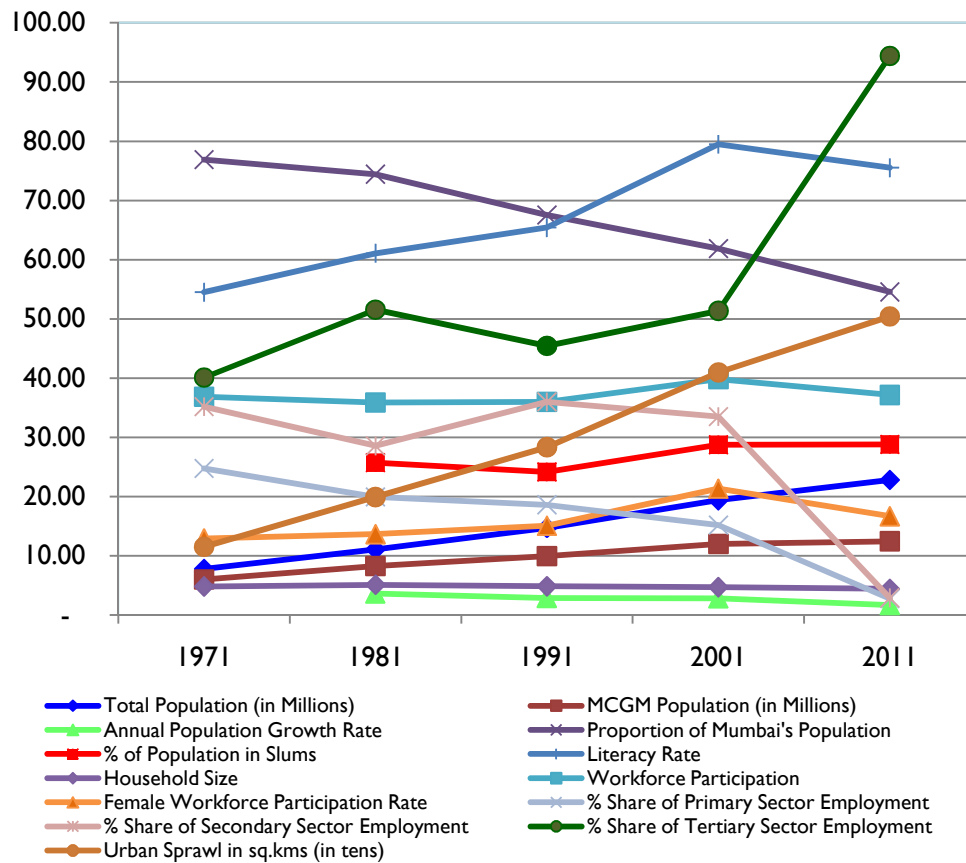
a	Area of the region	4355 sq.km.
b	Number of Districts	4 (2 full and 2 part)
c	Population, 2011	22.8 million
d	Urban Population, 2011	94%
e	Population living in slums, 2011	47%
f	Cities with population above 1 million, 2011	5
g	Cities with population above 1 lakh, 2011	12
h	Population projected upto 2031	34.0 million
i	No. of cities, 2011	17
j	Number of villages, 2011	950
k	Built up ground, 2010	14%
l	Area under greens & wetlands, 2010	32%
m	Total employment, 2005	7.5 million
n	Share of informal Employment, 2005	50%
o	Employment in tertiary sector, 2005	73%
p	Share of tertiary sector in GDP, 2008-09	58%

Population Growth of MMR

S. N	Unit	Population (in M)	Compound Annual Growth Rate (CAGR)			
		2011	1971-81	1981-91	1991-01	2001-11
A	Municipal Corporations					
1	Greater Mumbai	12.44	3.28	1.87	1.90	0.38
2	Thane	1.84	6.45	5.41	4.62	3.85
3	Kalyan-Dombivali	1.25	5.99	8.71	1.64	0.44
4	Vasai - Virar	1.22	2.77	4.60	6.67	4.89
5	Navi Mumbai	1.12	8.39	12.97	8.21	5.32
6	Mira-Bhayander	0.81	7.75	10.08	11.48	4.52
7	Bhiwandi-Nizampur	0.71	7.13	6.05	4.68	1.71
8	Ulhasnagar	0.51	5.00	2.74	2.53	0.66
	Sub-Total (A)	19.90	3.67	2.88	2.70	1.32
B	Municipal Councils					
1	Ambernath	0.25	5.51	2.36	4.94	2.23
2	Kulgaon-Badlapur	0.17	5.50	4.75	6.51	5.93
3	Alibaug	0.02	1.66	1.49	1.81	0.62
4	Karjat	0.03	1.13	2.27	2.37	1.51
5	Khopoli	0.07	3.06	6.26	2.68	1.95
6	Matheran	0.004	-1.24	4.61	0.88	-1.56
7	Panvel	0.18	3.37	4.75	5.84	5.64
8	Pen	0.04	2.31	3.87	3.41	2.28
9	Uran	0.03	1.86	1.60	2.72	2.73
	Sub-Total (B)	0.80	3.84	3.49	4.59	3.51
C	Census Towns (35 Nos)					
	Sub-Total (C)	0.63	5.39	6.39	5.27	11.30
D	Urban MMR (A+B+C)	21.33	3.69	2.93	2.78	1.58
E	Rural(MMR)	1.47	2.59	1.98	3.03	2.70
F	Total MMR (D+E)	22.80	3.62	2.87	2.80	1.65

Changing Character of MMR

	Population (in millions)			Area
	Urban	Rural	Total	Sq. km.
Greater Mumbai	12.44	0	12.44	438
Other Corporations in MMR	7.46	0	7.46	888.08
MMR	21.33	1.47	21.66	4,355
Maharashtra	50.82	61.56	112.37	307,713
India	377.11	833.09	1210.19	3,287,240



Background Studies

Report on Regional Water Resource Development - 2003

- Projected population-2031, calculated water supply requirement .
- Identified regional water supply sources and projects with timeframes.

Comprehensive Transportation Study for MMR – 2008

- Calculated two most probable growth scenarios for MMR based on population & employment distribution and travel preferences & behaviour .
- Suggested transport network for MMR-2031, identified investment needs.

Business Plan for MMR - 2009

- Benchmarked infra norms, calculated current backlogs, incremental requirements and investment needs-2021.
- Distributed infra into regional & municipal levels, suggested funding pattern.
- Identified projects in each sector and prioritised them period-wise.
- Suggested regulatory, financial & instt. changes required to meet infra. Needs.

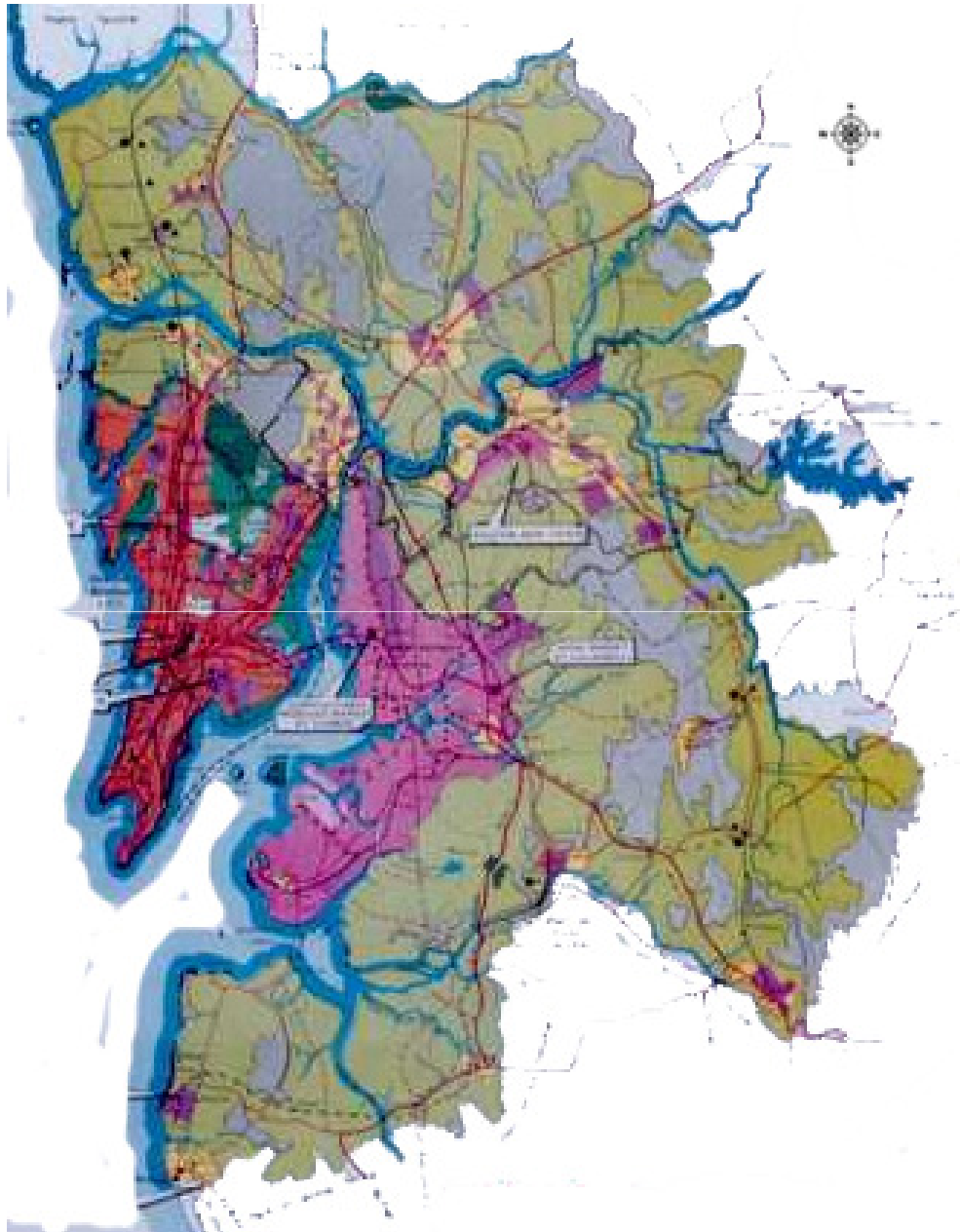
Concept Plan for MMR - 2011

- Brought out new ideas of development from international experience.
- Suggested short & long terms planning for 2 horizon years of 2032 & 2052.
- Suggested 43% area for urbanisation for a projected pop of 35 M by 2032.
- Suggested new land reclamation for city expansion and restructuring of MMR into townships of 1000 ha. with pop. of 10 lakhs each.
- Recommended new Global Finance Centre in South Mumbai with 6 fringe & 5 city centres .
- Proposed centralised Integrated SWM, Coastal Zone Management and parks & recreation destinations.

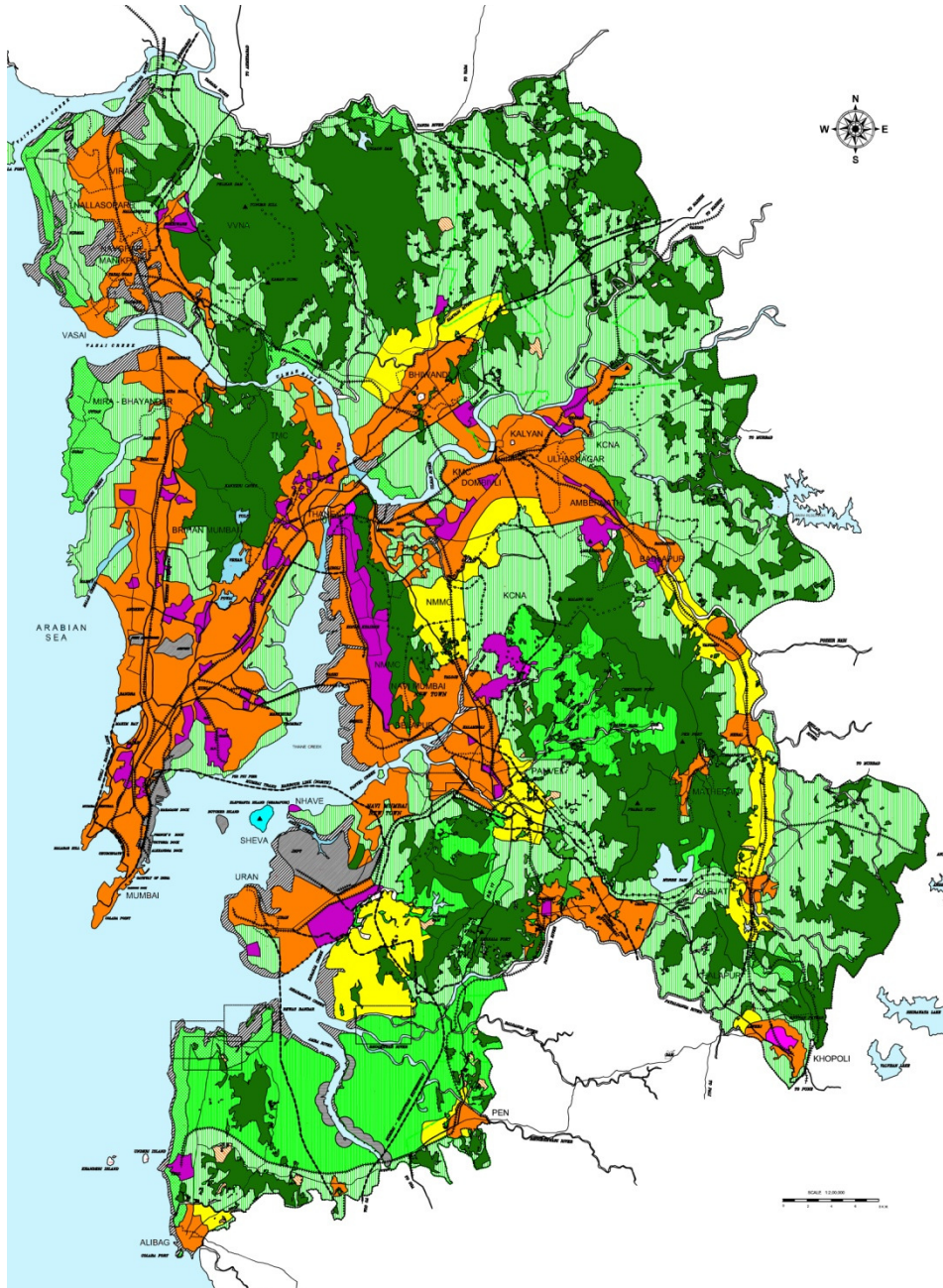
Environmental Status Report of MMR (under preparation)

- The report will assess the current environmental situation of MMR and identify related issues.
- The report is expected to generate a dynamic format for periodic data updation for various environmental parameters monitored by different agencies such as air quality, water quality, etc.

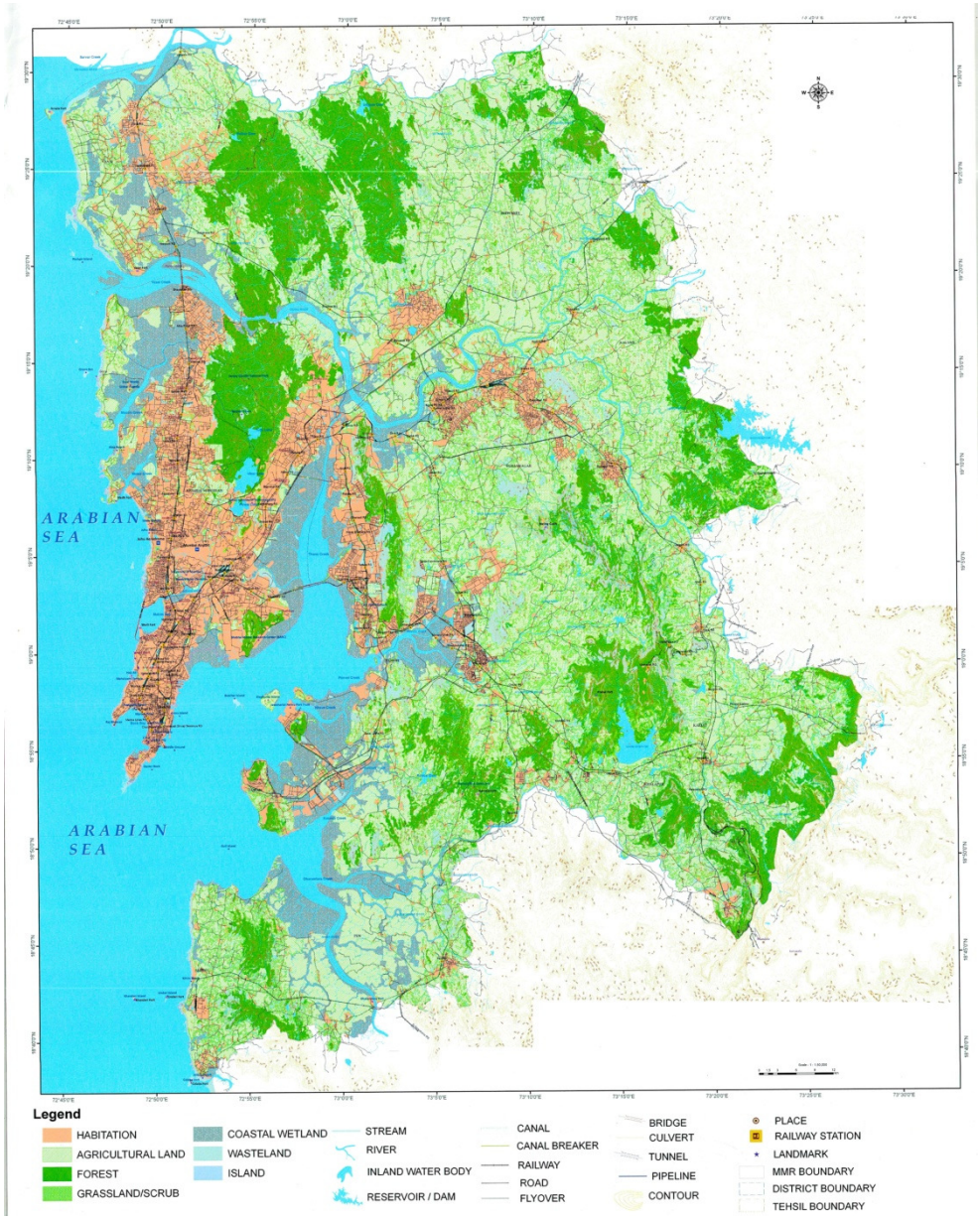
Regional Plan 1973



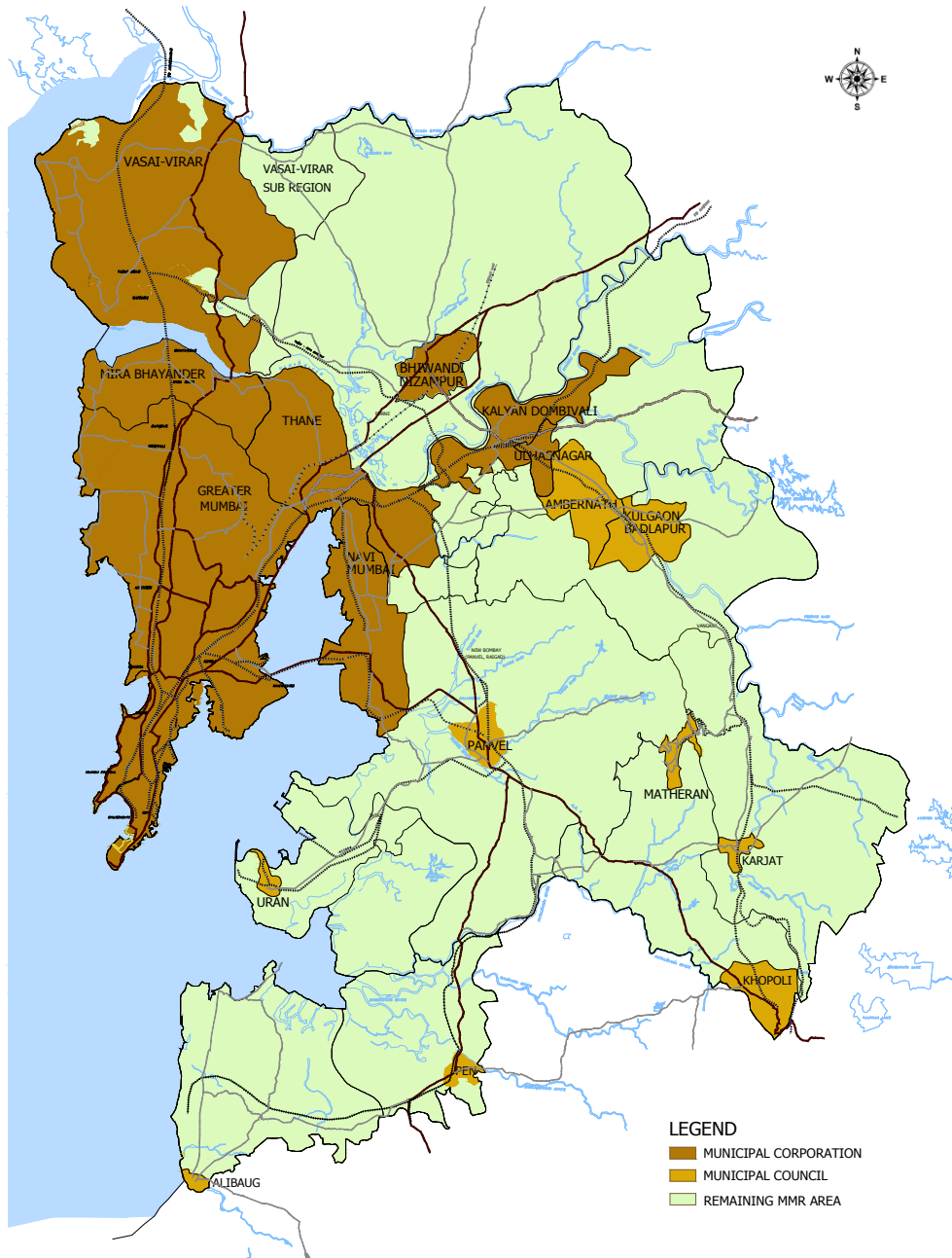
Regional Plan 1996



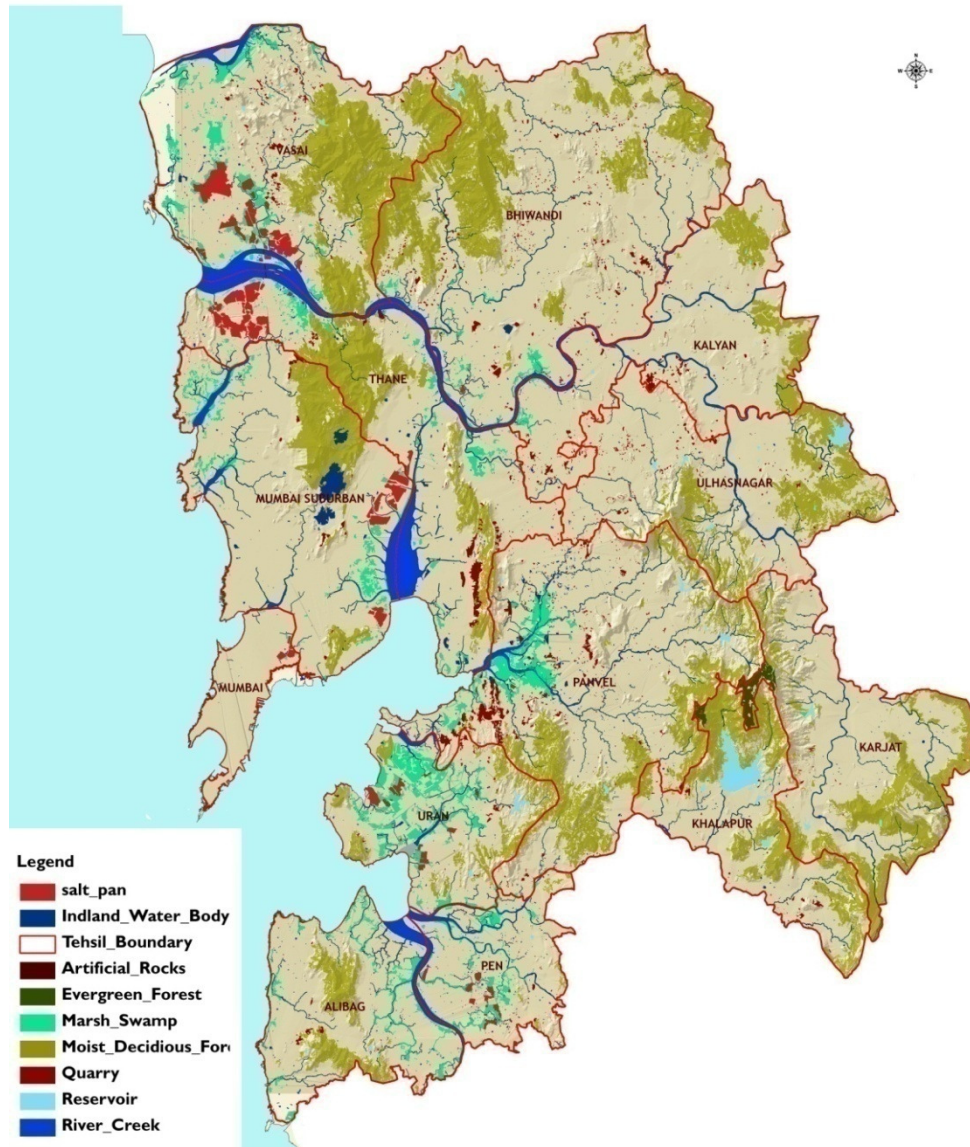
Existing Landuse Plan



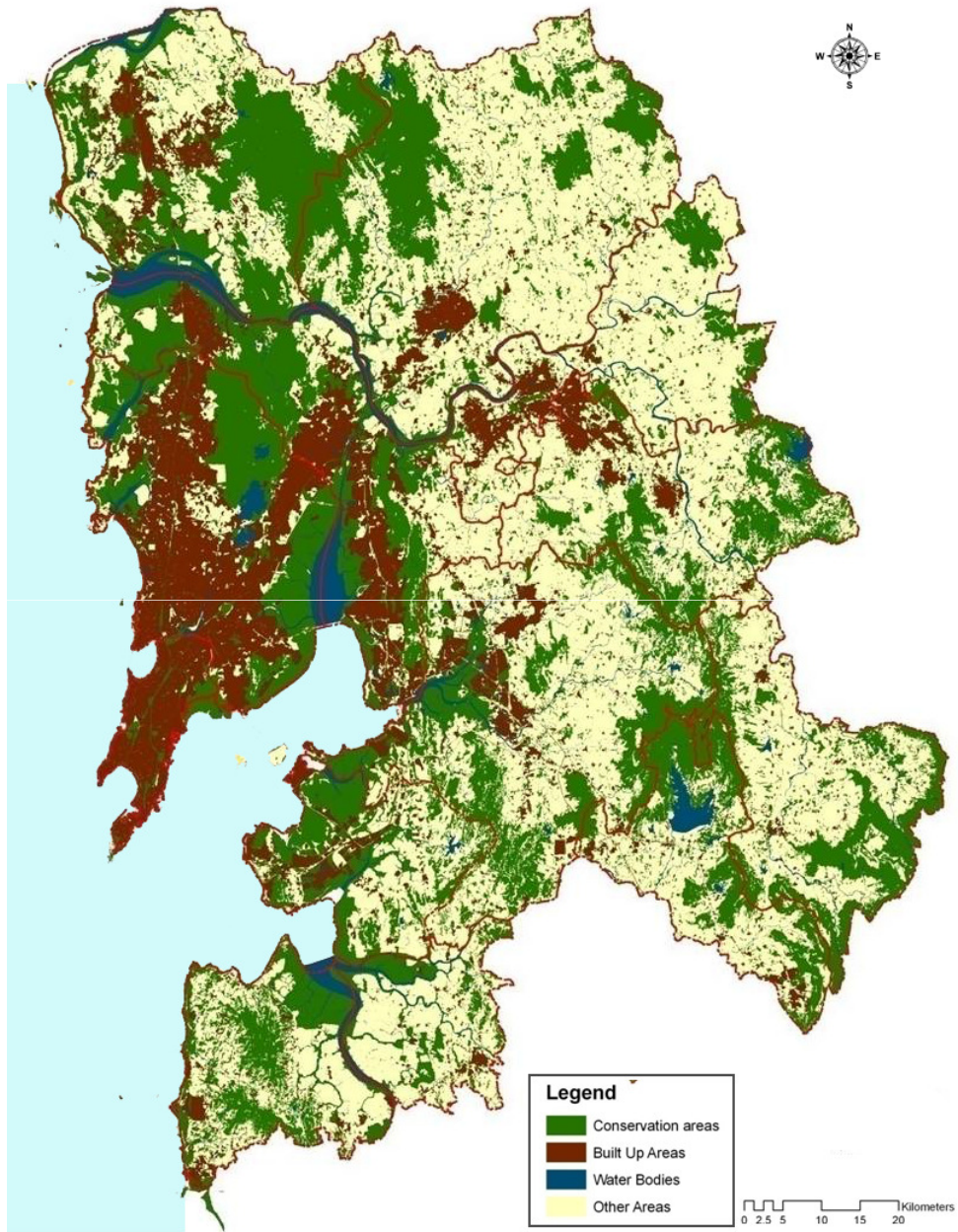
Administrative Boundaries in MMR



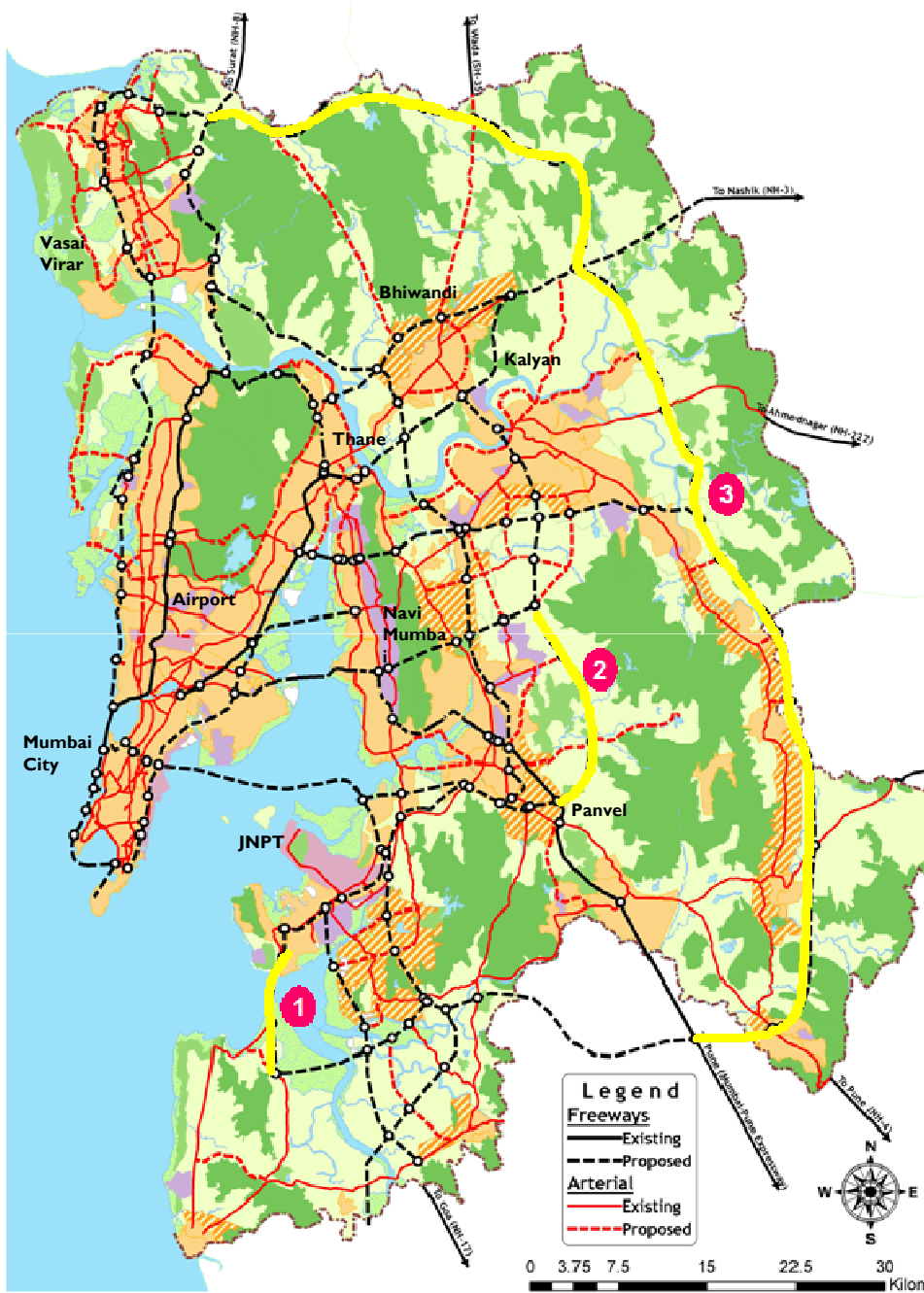
Environmental Features



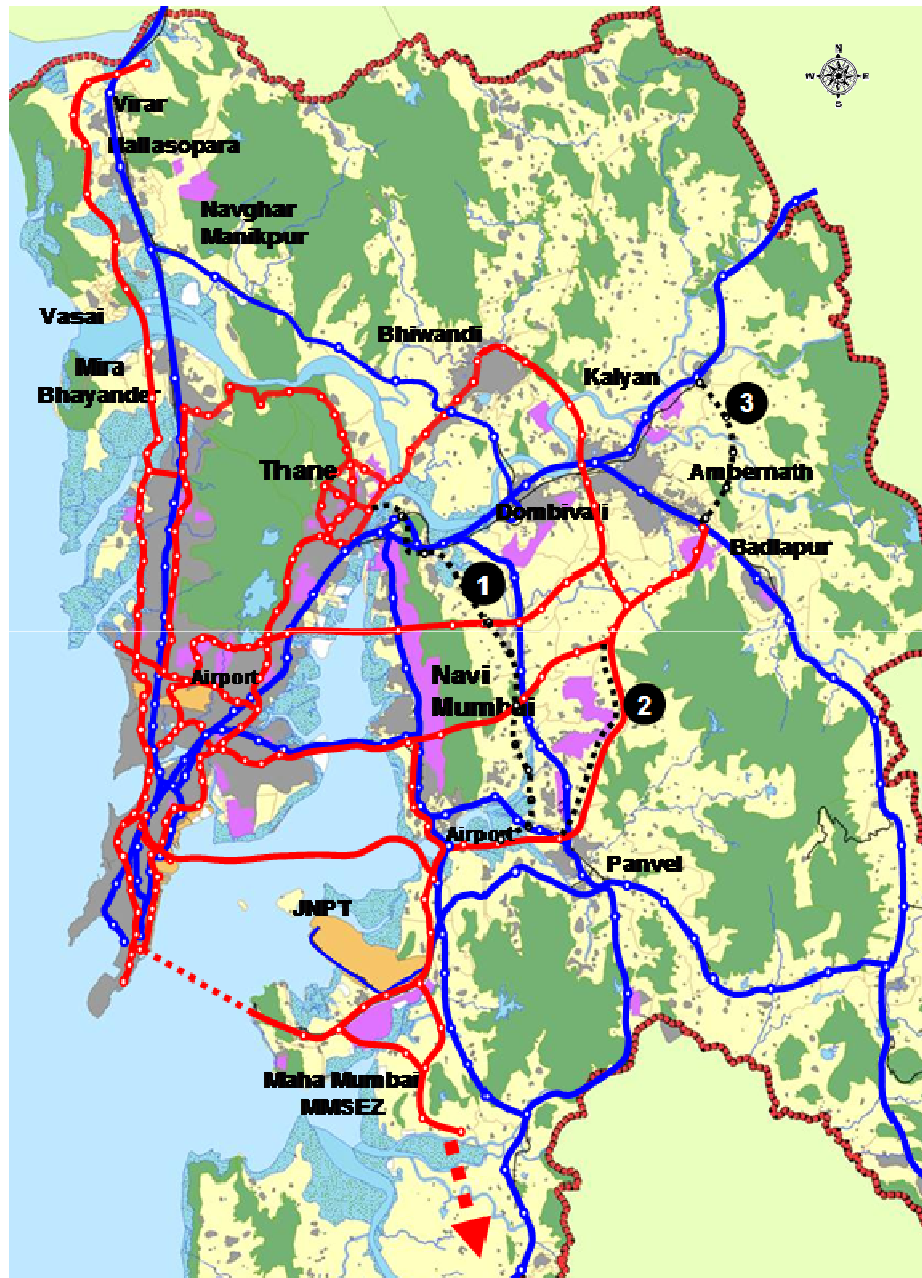
Area for Conservation & Development



Road Network -203 I



Transit Network -2031



For your stay in Mumbai


























Emergency Contact Numbers

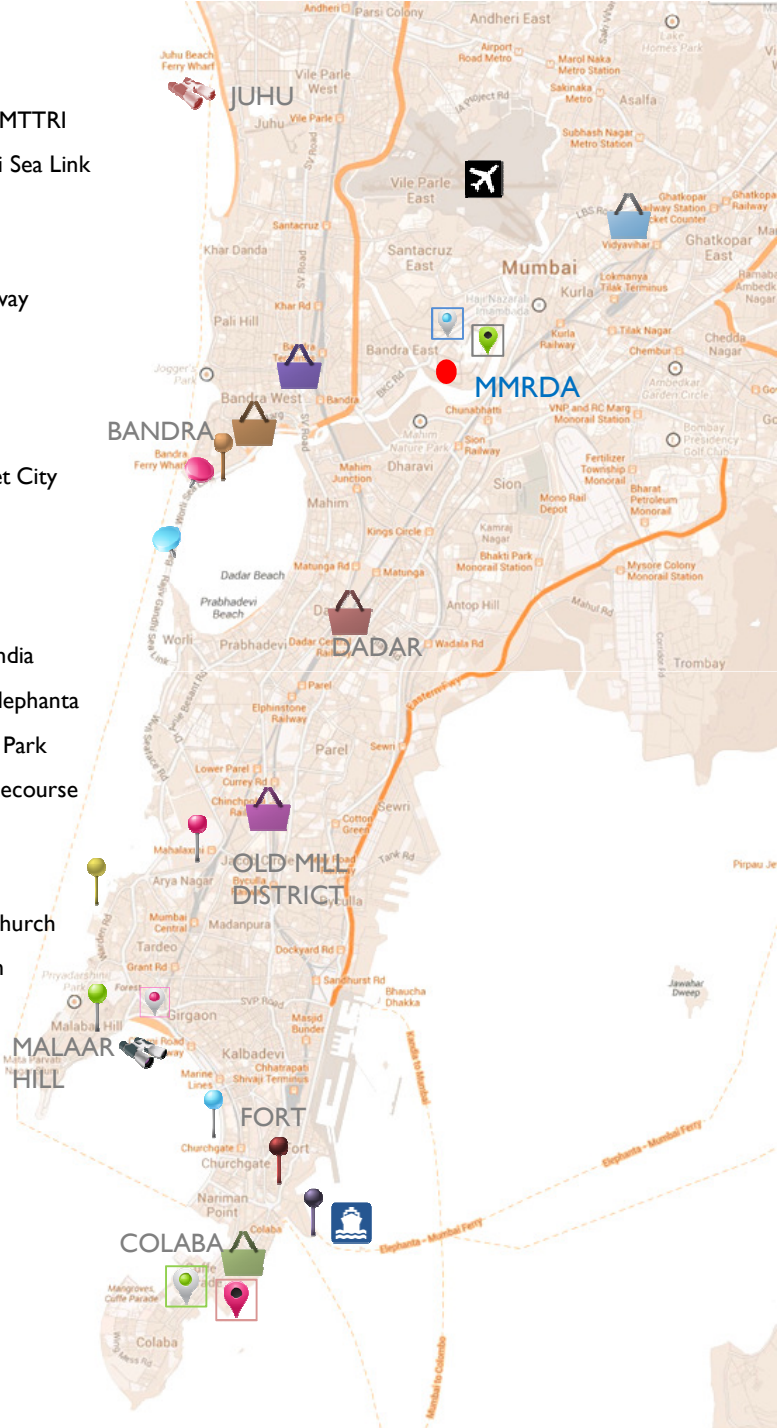
- Police : 100
- Fire : 101
- Ambulance : 102
- Infoline : 1090
- International Airport Exchange: 26829000
- Medicines : Solanki Medical Shop, 56 B, Shop No. 14,
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What can you do while in Mumbai

- Visit the heritage area of Fort Precinct
- Do shopping
 - Informal shopping at Linking Road, Colaba Causeway or Dadar
 - Formal shopping at Phoenix Mall (Palladium), Lower Parel or at Phoenix Market City, Kurla
 - interesting stationery with ethnic patterns at Chimanlal's, DN Road
- Visit temples, mosques and churches
- Visit Marine Drive
- Travel on Worli-Bandra Sealink and visit Worli Sea-face
- Whatever else you do, don't forget to travel by Mumbai Local Trains!

Tourist Map

-  Airport
-  Taj Lands End
-  MMRDA & NaMTTRI
-  Bandra - Worli Sea Link
- Shopping**
-  Dadar
-  Colaba Causeway
-  Linking Road
-  Hill Road
-  Palladium
-  Phoenix Market City
- Tourism**
-  Marine Drive
-  The Museum
-  Gate Way of India
-  Boat Ride to Elephanta
-  Kamala Nehru Park
-  Mahalaxmi Racecourse
-  Juhu Beach
-  Girgaon Beach
-  Mount Mary Church
-  Haji Ali Dargah
- Consulates**
-  Brazil
-  France
-  Korea
-  Spain
-  U.S.A.





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