

## Water Transport Solutions to Alleviate Chronic Urban Traffic Congestion



Case study : Mumbai Passenger Water Transport

# Executive Summary

- MSRDC, an agency under the Government of Maharashtra, has invited bids for operating a passenger water transport system on BOT basis in Mumbai (west coast)
- “Minimum Concession Period” offered is basis for award of the project
- Bidder is required to undertake all infrastructure works at project sites
- Ferry services to be operated for a minimum of 15 hrs a day, 250 days a year
- Exclusive operating rights for duration of concession period

## **Purpose**

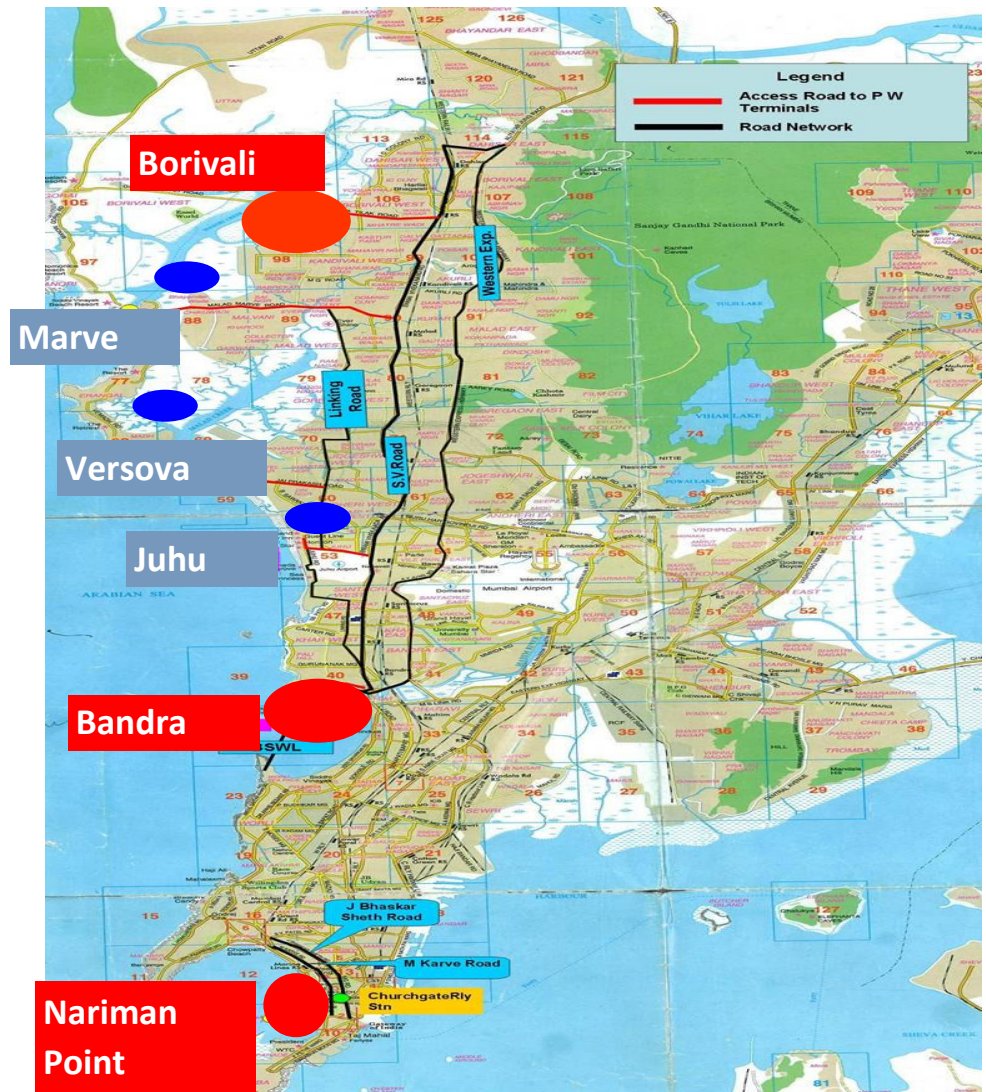
- Relieve the existing congested transport system in Mumbai
- Provide an alternative mode of comfortable mass transport system on sustainable basis.
- Mumbai's extended waterfront offers excellent untapped opportunity to develop water transport as a viable alternative mode of transport
- Build other commercially viable ventures around terminals

## **Advantages:**

- Monopoly in Operations
- Huge floating population of Employees/Business Persons/Students
- Fares can be competitive in view of lesser travel time
- All terminals have huge commercial attractiveness

# Project Map

- Total Population of Mumbai region: 20.8 million (2005)
- PWT will compete with various modes like suburban rail, road, metro to attract share of influence area trips
- Travel time, congestion and ease of access factors favour urgent need for a faster, comfortable mode like PWT for commuting in Mumbai



# Customer Segments

- Home to work trips – Daily commuters to office & back
  - Commuters presently using own car
  - Commuters presently using taxi
  - Commuters presently using train / AC buses
- Work trips from Office
  - Corporate travellers on duty
  - Business Proprietors
- Personal Trips
  - Students
  - Housewives
  - Senior Citizens
- Tourists
  - Foreign Tourist
  - Domestic Tourist

# Project Appreciation

## Distance Matrix - Mumbai

PWT Terminal Distance (km)	Borivali	Marve	Versova	Juhu	Bandra	Nariman Point
Borivali	0	5.22	13.5	16.56	27	45
Marve		0	9	10.26	24.3	39.06
Versova			0	3.6	13.5	29.16
Juhu				0	9	23.76
Bandra					0	16.56
Nariman Point						0

# Comparison of Cost & Travel Time

Cost figures in Indian Rupees, time in minutes

Origin	Destination	Road			Rail		Catamaran
		Car Cost	Taxi Cost	Travel Time	Train Cost	Travel Time	Travel Time
Bandra	Nariman Point	94	223	60-90	52	35	20
Borivali	Nariman Point	292	584	90-120	107	65	62
Borivali	Bandra	180	361	60-90	78	40	42

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