Open Building Approach Toward Inclusive Urban Space



# Prelude





#### Mumbai Urban Growth



Prelude

#### Nalasopara





Nalasopara Urban Transfromation



Nalasopara Urban Transfromation



What Has Been Created on the East?



Prelude



Addressing the Problem of Slums in India



In-Situ Slum-redeveopment | Relocation

# In-Situ Slum-redeveopment's Goal



Prelude



Low-rise High Density Blocks









Random Open Space



Urban Borders



Lack of Public Amenities





# Clustering and Hierarchy of Open Space

Ignoring Dynamic Nature of Life





#### Encroachment at BDD Chawls in Mumbai

#### Inclusive Housing





Virar Dam





Existing Land Use Plan for MMR-2016



#### Proposed Land Use Plan for MMR-2036















Virar Dam Area's Social Spine






Goals and Objectives

used in-situ redevelopment scheme be n inclusive urban space? an in e an To what extent/How can to generat



# Proposal

Urban Strategy





Existing Constraints



Open to Sky Network



Traffic Circulation



Traffic Circulation



Amenities



Amenities



Managing Moonsoon Rainwater



#### 1st Phase of Redevelopment



#### 2nd Phase of Redevelopment



#### 3rd Phase of Redevelopment



#### 4th Phase of Redevelopment



#### 5th Phase of Redevelopment



#### 6th Phase of Redevelopment





Low-rise High Density Blocks



Staircase as Joint



Open Building Style





#### The Margin of Fluctuation in Affordability



Variety of Units' Area





Vertical Growth

Vertical Growth



Mechanical Shaft



Windows Position



Floor Plan Layout





### Ottla in the Height












Building As a Barrier



### Building As a Barrier











Clustering Principles











Cluster Type A



Cluster Type A



Cluster Type B









Cluster Type B



Cluster Type C



### Cluster Type C





# Proposal

Experience.



## Family



Proposal | Experience





## Courtyard



#### In Between the Blocks'



Bulding as a Barrier/Animator



## Proposal

Building Technology













Shaded Area



Natural Ventilation





Density & FSI



Proposed Height	Number of		Number of	Population	Built up Area	
Mix	Dwelling units		Shops/Workshop		(sq.m)	
Integrated into context Cluster	472		38	1888	21791.6	
Cricket Field Cluster	526		76	2104	14021	
Rectangular shaped Cluster	706		138	2824	38792	
Square shaped Cluster	492		88	1960	23578	
Wall	216		36	864	9412.2	
Bare Structure	61			244	1220	
Filling Blocks	594		65	2376	23110	
Amenities					46835	
Total	3067 units		441	12260	178760	
Height of G+7 for all	Number of Dwelling units		Number of Shops/Workshop	Population	Built up Area (sq.m)	
	472			1888	21791.6	
Integrated into context Cluster			38	1888	21/91.6	
Cricket Field Cluster	500		80		24223.7	
Rectangular shaped Cluster	600		136	2400	43743	
Square shaped Cluster	496		76		24223.7	
Wall	216		36	864	9412.2	
Bare Structure	61			244	1220	
Filling Blocks	594		65		28937	
Amenities					65177	
Total	2939 units		431		217630. 2	
Height a		is proposed	Height of G+7 blocks			
Area of the site (sq.m)				85680		
Open space (sq.m)		35942		35942		
Population		9696			12012	
Roads (sq.m)		22760.6		22760.6		
Density (unit/hectar)		667		785		
FSI		2.14			2.45	

Density & FSI

#### Inclusive Housing



Thank You