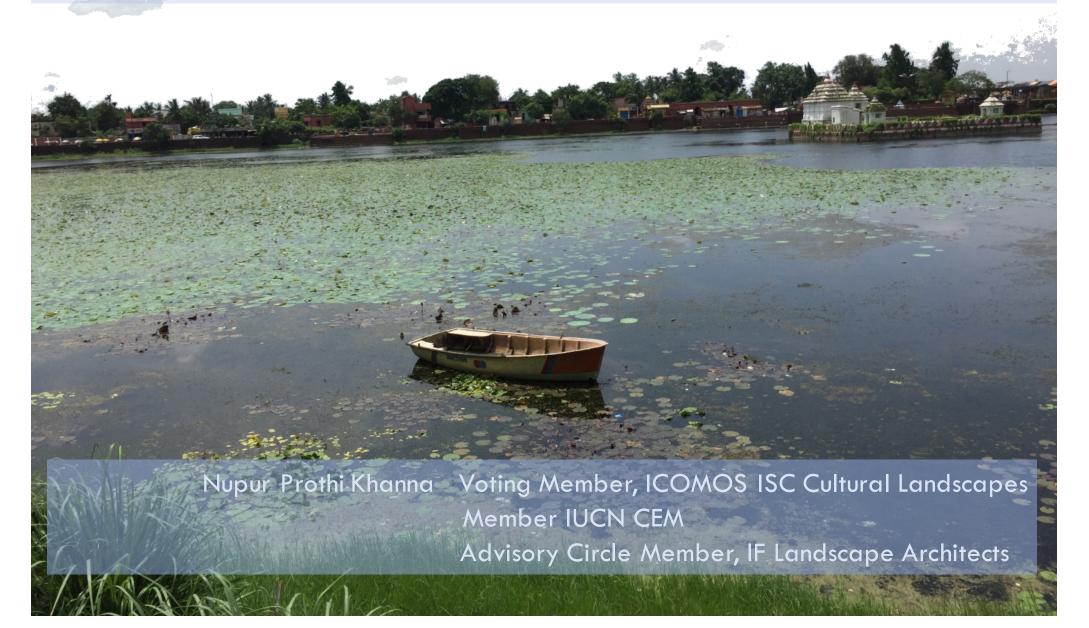
Landscape and Heritage Conservation in India



OUTLINE OF PRESENTATION



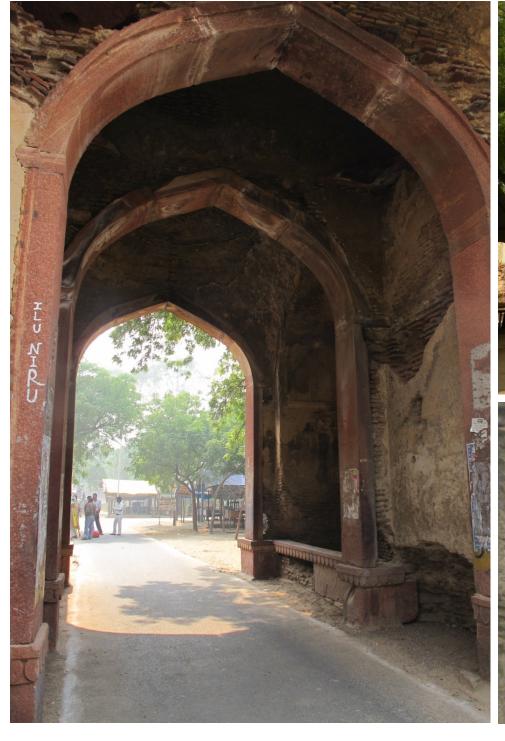
- BACKGROUND
- CHALLENGES, Garden@Fatehabad
- A LANDSCAPE APPROACH, A Temple tank
 @Bhubhaneshwar
- HISTORIC PLANTING
- HISTORIC NARRATIVES, Lal Bagh@Bengaluru





The Entrance Gate





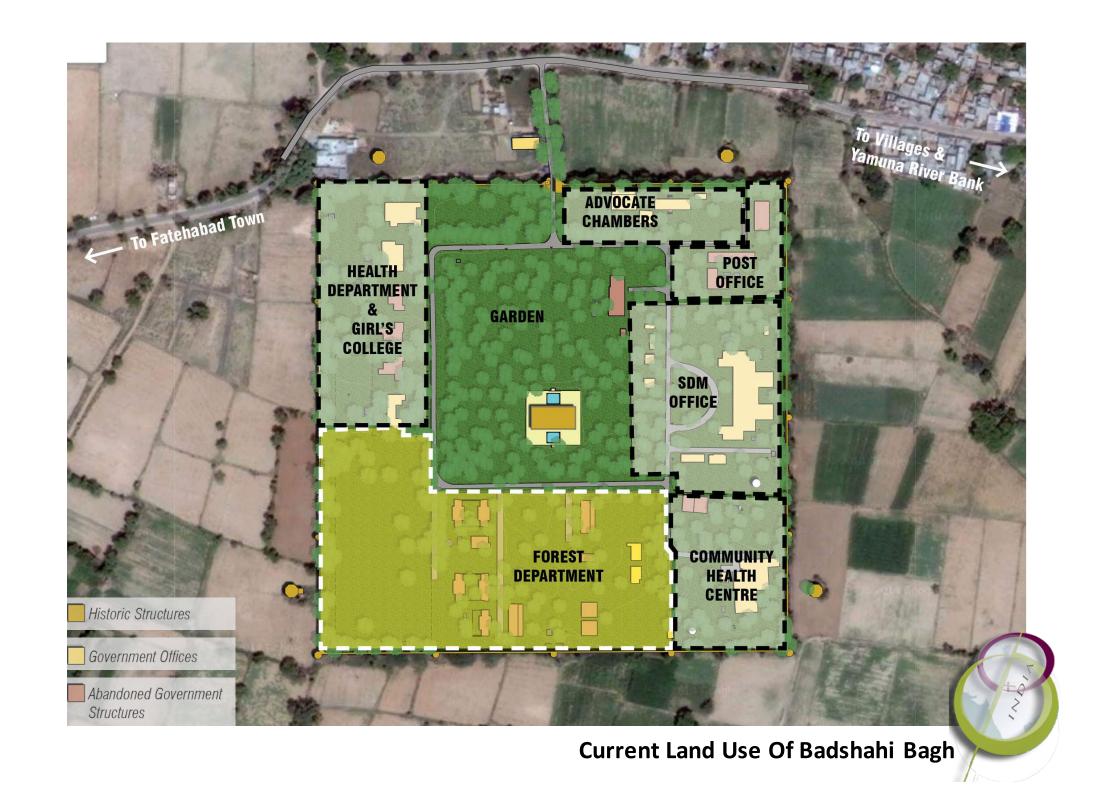




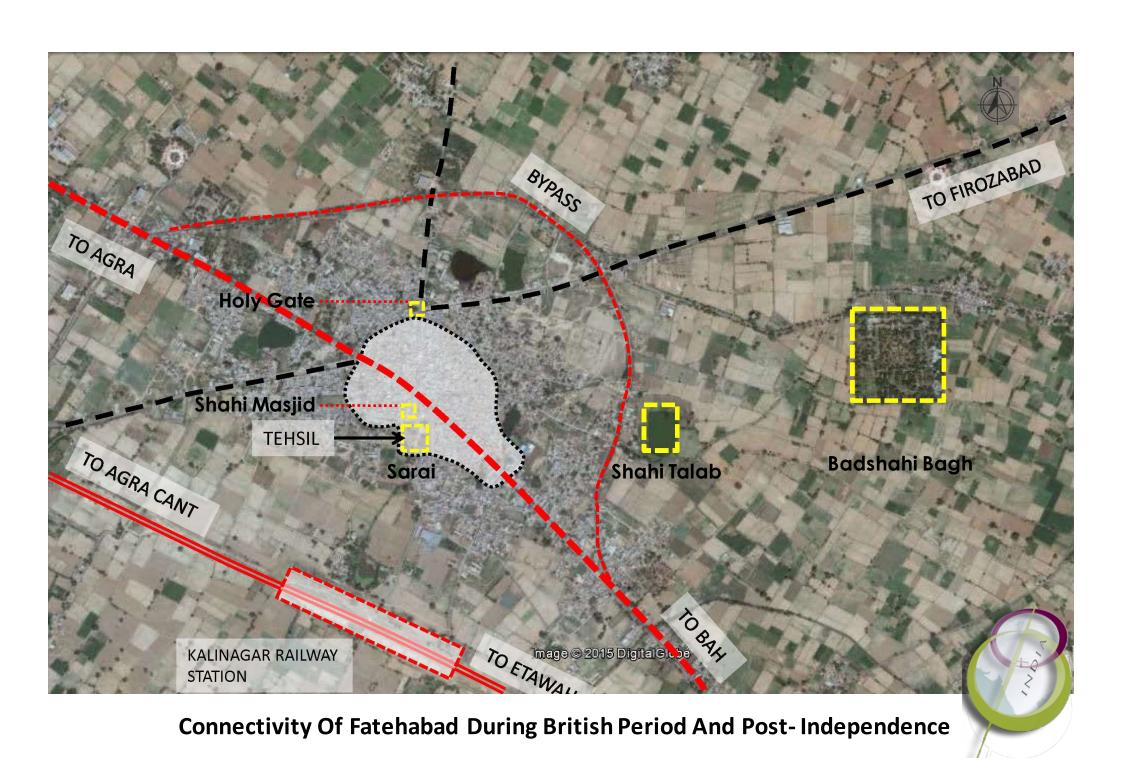


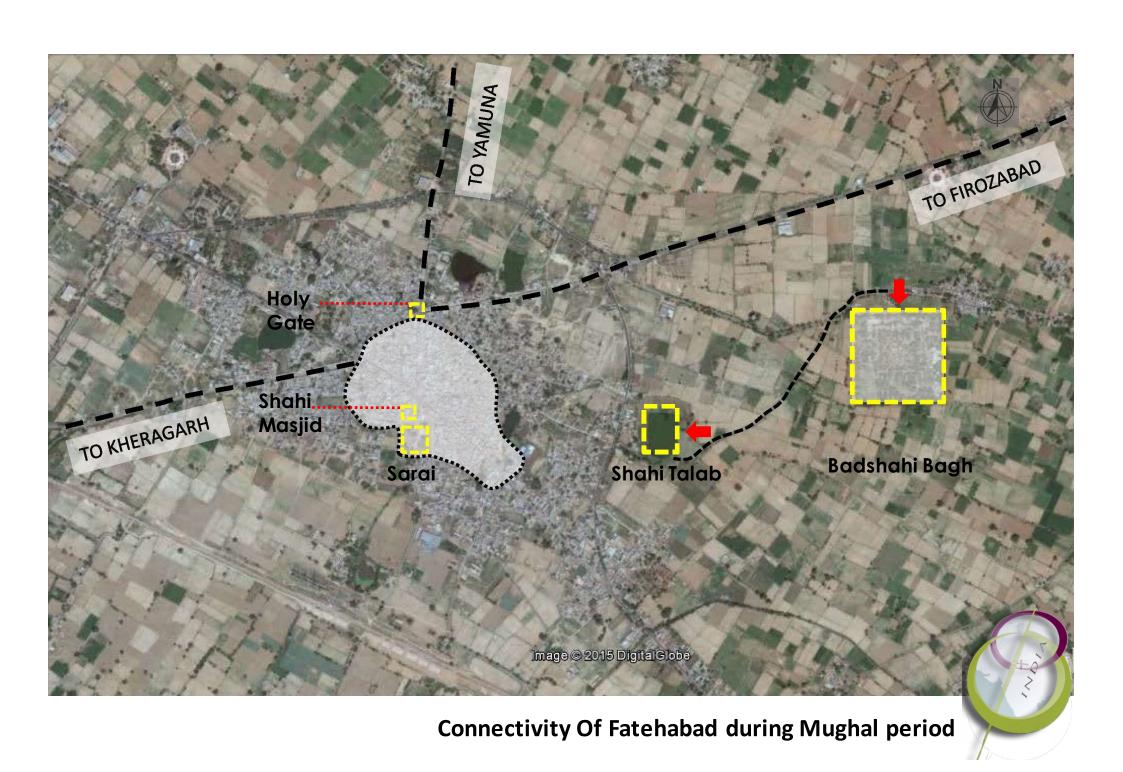




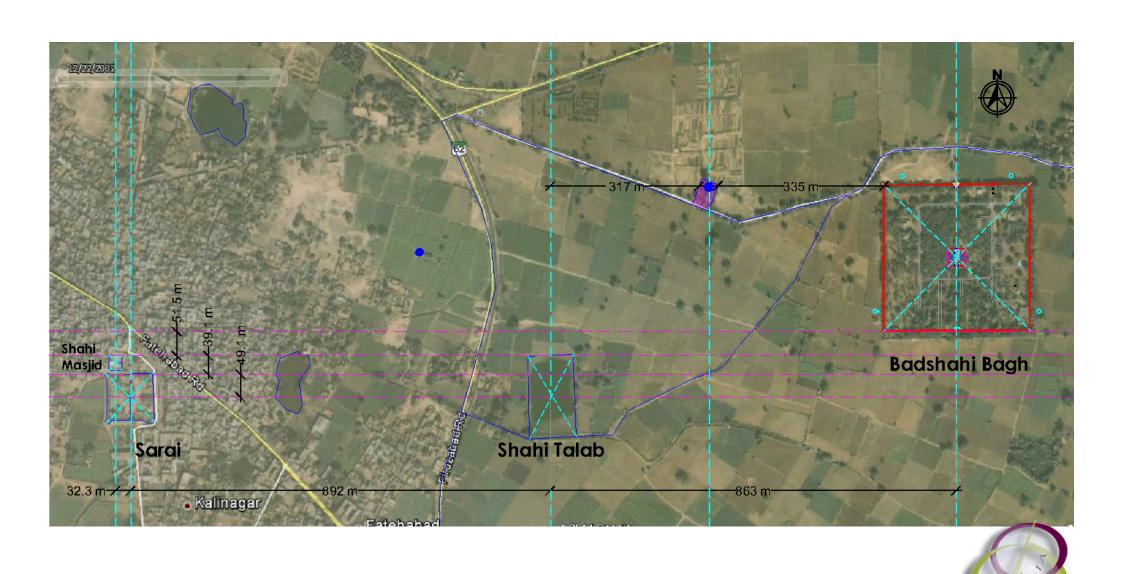




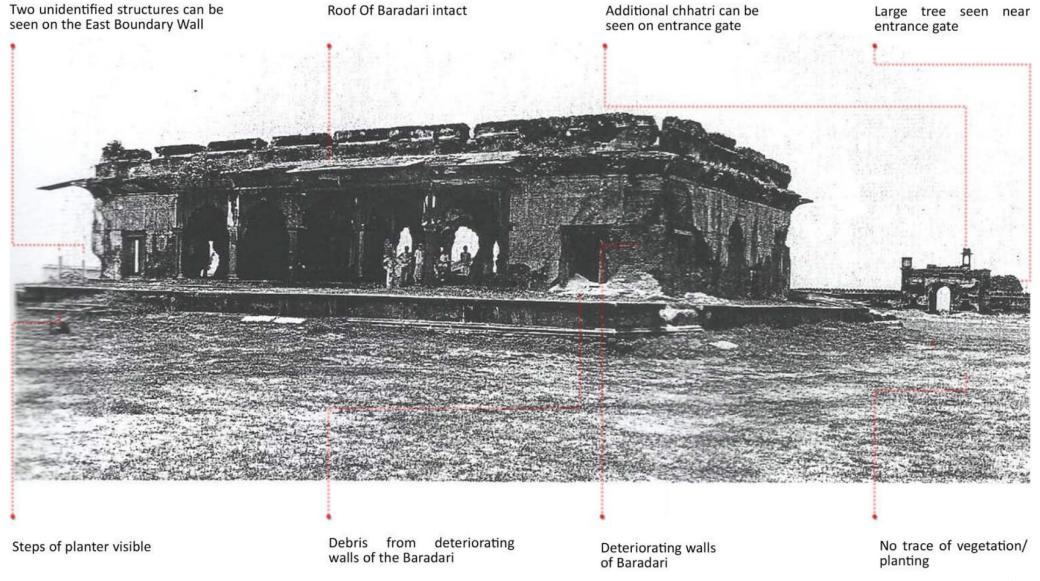








A King's Orchard Badshahi Bagh — Bagh, Maqbara or Shikargah?





Where do we go from here?

Any effort for conservation in such a scenario will need to address recent developments while formulating a viable plan for sustainable heritage management.



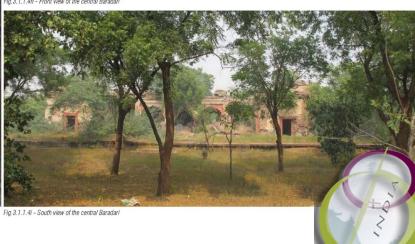
Fig. 3. 1. 1.4f - A view from Entrance gateway





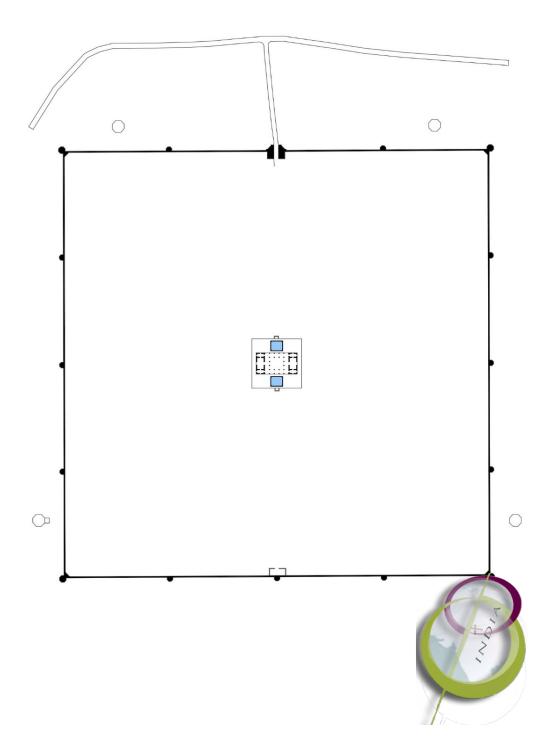


Fig.3.1.1.4j - A view looking out from north face of Baradari



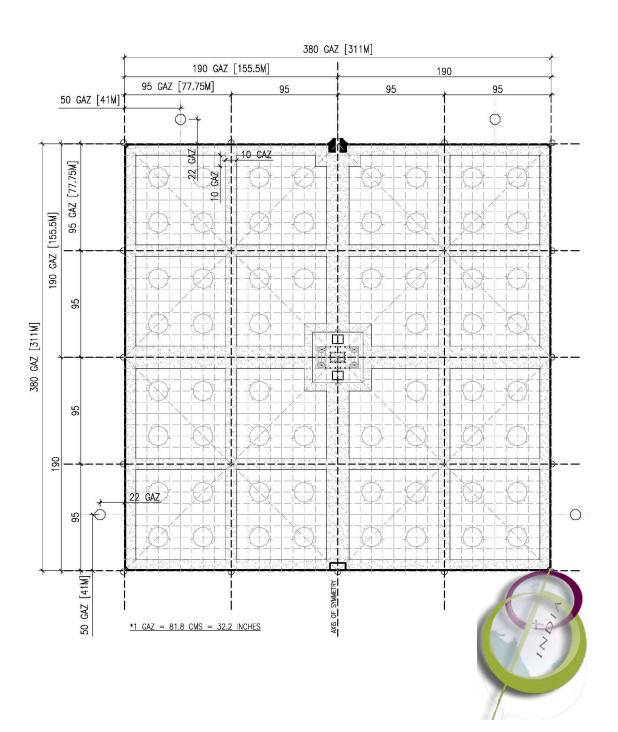
Significance - Garden Layout Grid

Mughal gardens are known to have been laid out in a measuring unit system based on the gaz-ilahi. During the era of Shahjahan the gazilahi measured slightly over 32 inches (Habib 1982). Wescoat (1993) has documented the grid of Janhangir's Tomb Garden at Lahore to be based on a 20 Gaz grid whereas Richard Andre Barraud (2006) has documented multiple grids in the Taj Mahal complex. According to him, the planning of the garden and the riverfront terrace is based on a 23 Gaz grid, while the Jilaukhana and the bazaar and caravanserai complex are planned on a 17 Gaz grid. The metric equivalent of the Gaz in this case was 80.55cms or 31.7 Inches.



Significance – Garden Layout Grid (10 gaz)

The Badshahi Bagh is a perfect square in plan of 311m side. This dimension corresponds to 380 equal parts of the Gaz-ilahi when 1 gaz is taken as 81.84cms or 32.2 Inches. Taking the North-South axis through the centre of the Gateway and Baradari, along which line the garden is symmetrical, each half was divided into equal odd number of grids on the Y-axis such that the centre of the middle chattri is not intersected by a grid line but lies in the centre of two. This gives 19 divisions on each side, each division corresponding to 10 Gaz based on the above mentioned metric unit. This arrangement of the grid allows 16 equal square quadrants aligned with chattris on the X & Y-axis. This study establishes a planning grid of 10 Gaz for the Badshahi Bagh wherein 1 Gaz equals to 81.84cms or 32.2 Inches.



A King's Orchard

Historic Site Management - Short Term Plan





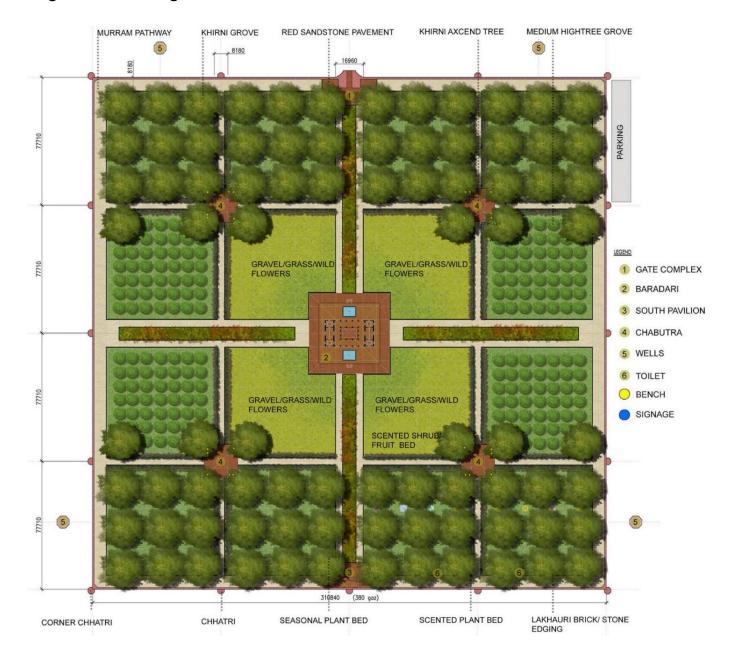
Present Day Context - Badshahi Bagh

The garden currently functions as Tehsil headquarters, where of the most government administrative and iudicial institutions are housed. There are three enclosures within the garden complex occupying areas on the west and south. They are the Sub-Divisional Magistrate's Office, Community health centre and offices and residences for the Forest department. The north and eastern parts are dotted with various smaller buildings such Gandhi Girls Kasturba as School & hostel, advocate chamber, post office and a number of temporary structures for the notaries. The baradari in the centre is surrounded by a garden which is encircled by a motor able road. An abandoned police station building sits within this central garden.

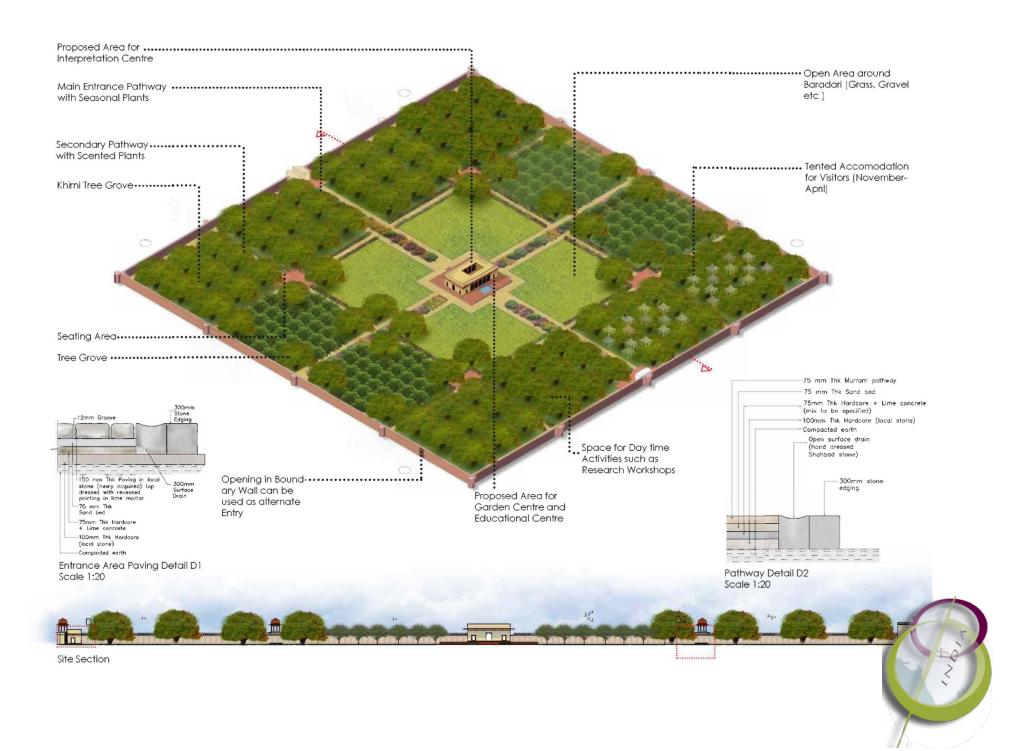


A King's Orchard

Historic Site Management - Long Term Plan





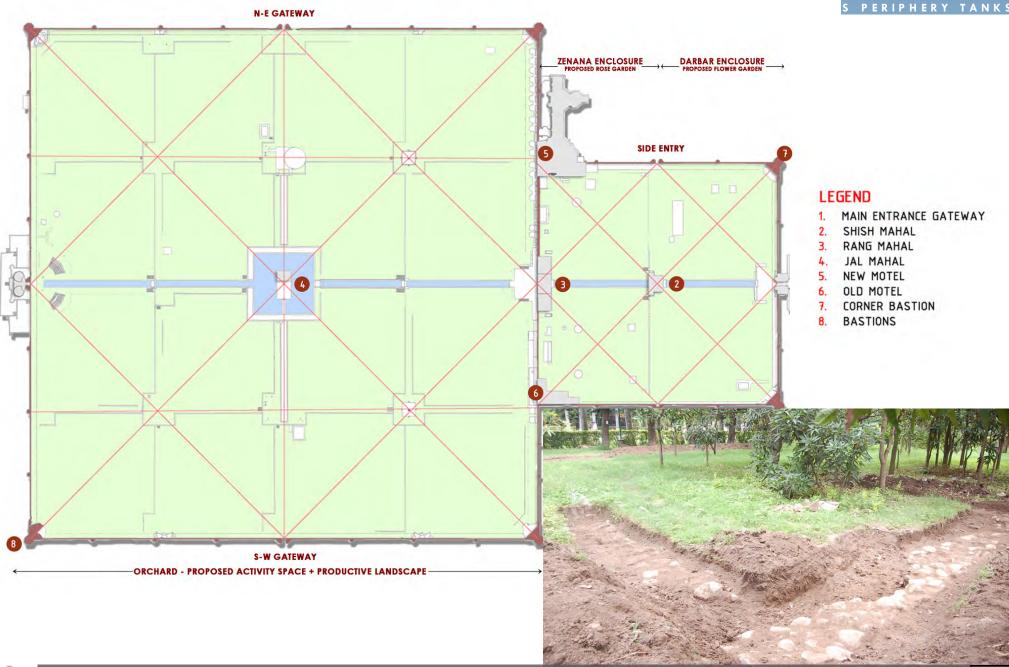


AESTHETICS

UTHENTICITY

AVAILABILITY ON-SITE EXECUTION
RESPECTING HISTORICAL LAYERS





AUTHENTICITY

AVAILABILITY ON-SITE EXECUTION RESPECTING HISTORICAL LAYERS

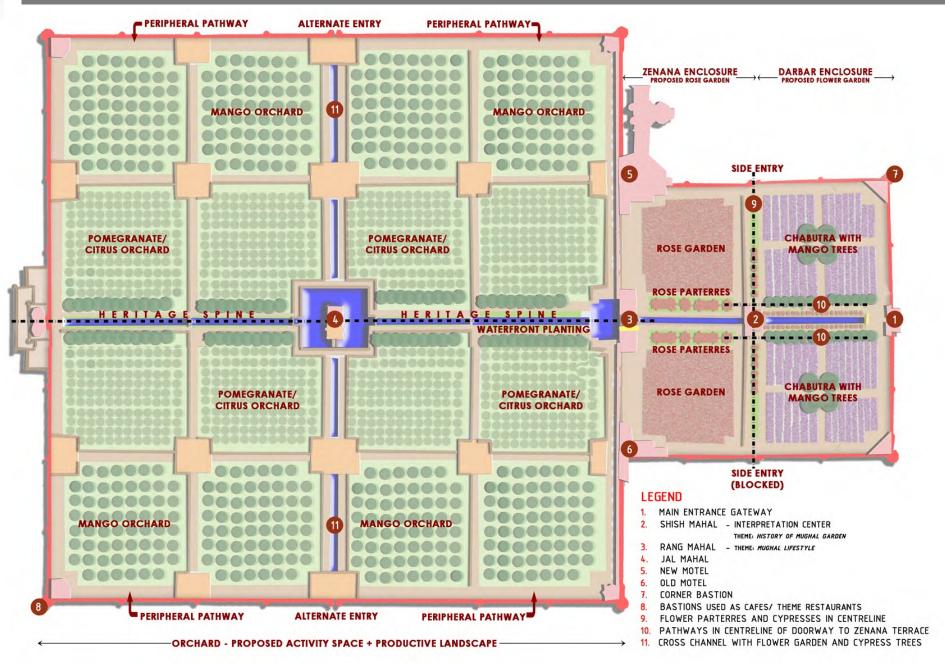


		KESPE	CIING HISTORI	CAL LAYERS
LOCATION	OBSERVATIONS	INFORMATION FROM REJUVENATI REFERENCES/OTHER SOURCES	ÄNÄLYSIS ^{D U S A G A R}	PRÉLIMINARY TANKS CONSERVATION STRATEGY
TERRACE 1	 Profusely flowering purple bougainvillea at entrance and all along boundary wall. Mango orchard quite haphazardly planted without any apparent system or grid as compared to the plots of the lower garden Row of palms, line of hedge and row of Saru (probably incorrectly identified) all heighten the length of this vista. 	 "masses of purple bougainvillea fell in brilliant festoons of welcome over the glittering white-washed surface of the entrance buildings." (Stuart, 208) "here two fine old mango trees with spreading gnarled arms cast a dense shade" (Stuart, 208) "Only a few big Cypresses remain of the original avenues that led upto the garden house. But close by the water, roses, jasmine and palms still flourish" (Stuart, 211) "Behind the Cypress trees, stone edgings show where long parterres of flowers once made a blaze of colour, while large chabutras shaded by mango trees form the centre of the design on each side." (Stuart, 211) 	The disturbed pattern of the orchard and location of nursery indicate that all the trees were not planted at the same time and there was probably another use for these plots. This is reiterated in Stuart's reference as well.	The presence of flower beds and therefore a flower garden and the presence of two aging mango trees in the early 20th century accounts need to be investigated on site. This could lead to a conjectural design of a quadripartite garden in each of the north and south plots with mango trees in the central Chabutras where today exists a nursery and mango orchard respectively.



		KESI	PECTING HISTORI	CAL LATERS
LOCATION	OBSERVATIONS	INFORMATION FROM REFERENCES/OTHER SOURCES	ANALÝŠIŠINDUSAGAR	PRELIMINARY TANK CONSERVATION STRATEGY
TERRACE 1	 Presence of a row of aging Cypress trees at the western edge of this terrace. While the row of palms is approximately equidistant from the central water channel, the row of Saru (??) trees on the south terrace are at a distance of approx. two meters greater than the row on the north terrace w.r.t the edge of the water feature. 	 "First came the great high gateway which formed the double purpose of entrance hall and quarters for the guard; beyond extended a large flower garden laid out in parterres beside the stream, at the end of which was the men's diningroom." (Stuart, Chapter 1) "fine purple masses of the Bougainvillea climber are an addition which the original designers would have welcomed; and these are well worth leading more profusely along the interior of the entrance wall" (Geddes, 7) "The few surviving Cypresses indicate the original design, and their rows should therefore be completedOutside these again the palm lines should be completed even with the labour of setting back the existing border of shrubbery (Hibiscus, Acalypha, Russlia etc. to which Jasmine, roses etc. may be added)."(Geddes, 7) 	The location of the Saru (species to be correctly identified) trees behind the hedges may be an indication of these being planted over a row of existing, aged Cypress trees as mentioned in the reference. This would match the design as the western edges of both the plots indicate remains of a row of Cypress trees which fit in the Mughal design. There is mention of lawns existing at that time as well	 A row of palm trees seem to have existed in the early part of last century but their location will need to be ascertained w.r.t to the distance from the central canal. The list of plants next to the water may be recreated from the Villiers Stuart sketch and from list of plants commonly used in Mughal gardens in the late seventeenth century.







UTHENTICITY

AVAILABILITY ON-SITE EXECUTION





ART HISTORIAN

Identification of Plant Palette



The view of the building should not be obliterated

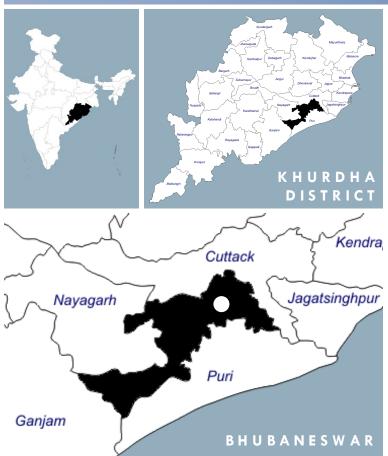




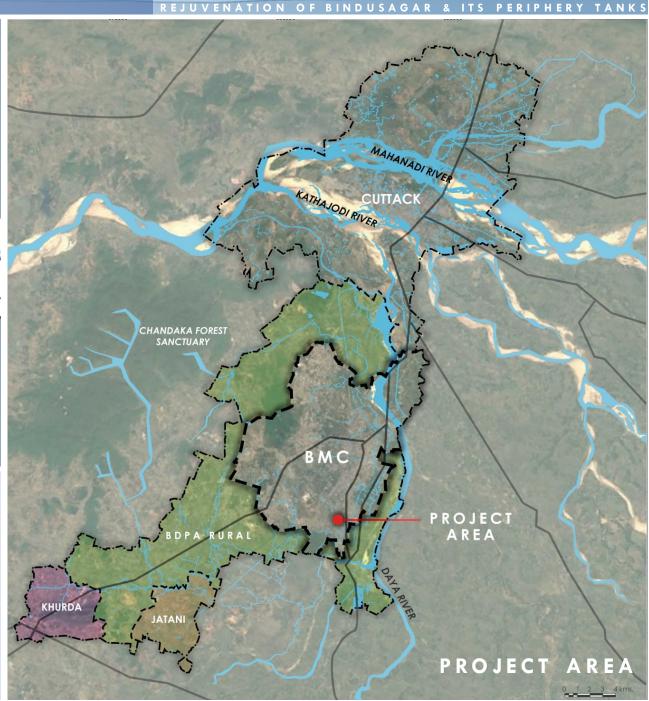


LOCATION OF PROJECT AREA

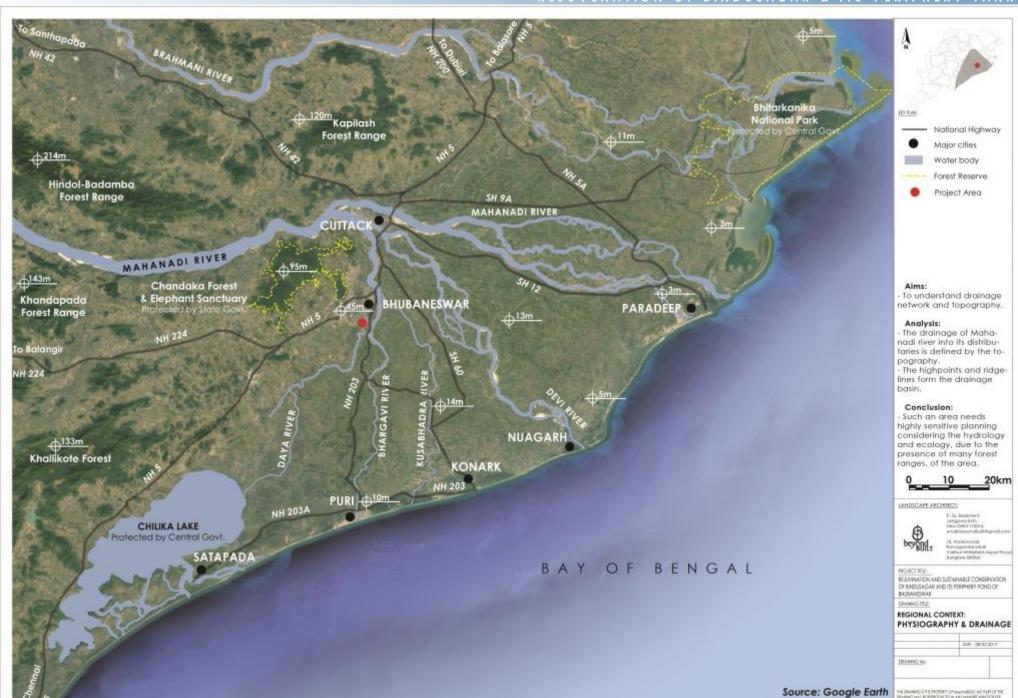




The project area is located in the Old Bhubaneswar Town area of the Bhubaneswar Municipal Corporation within the BDPA (Bhubaneswar Development Planning Authority) extents



REJUVENATION OF BINDUSAGAR & ITS PERIPHERY TANKS



CONTRACTOR OF THE PARK AND A STATE OF

PROJECT AREA TANKS

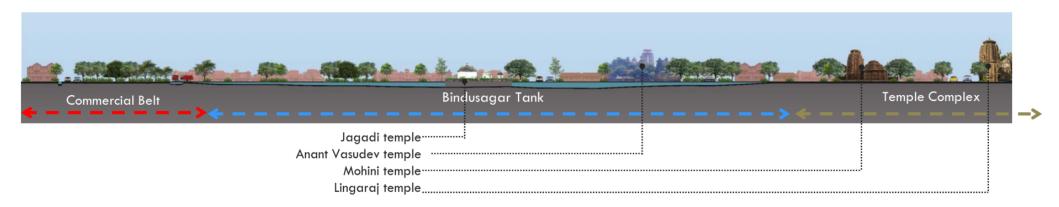




TANK: SECTIONS



1. BINDUSAGAR TANK



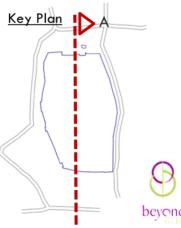






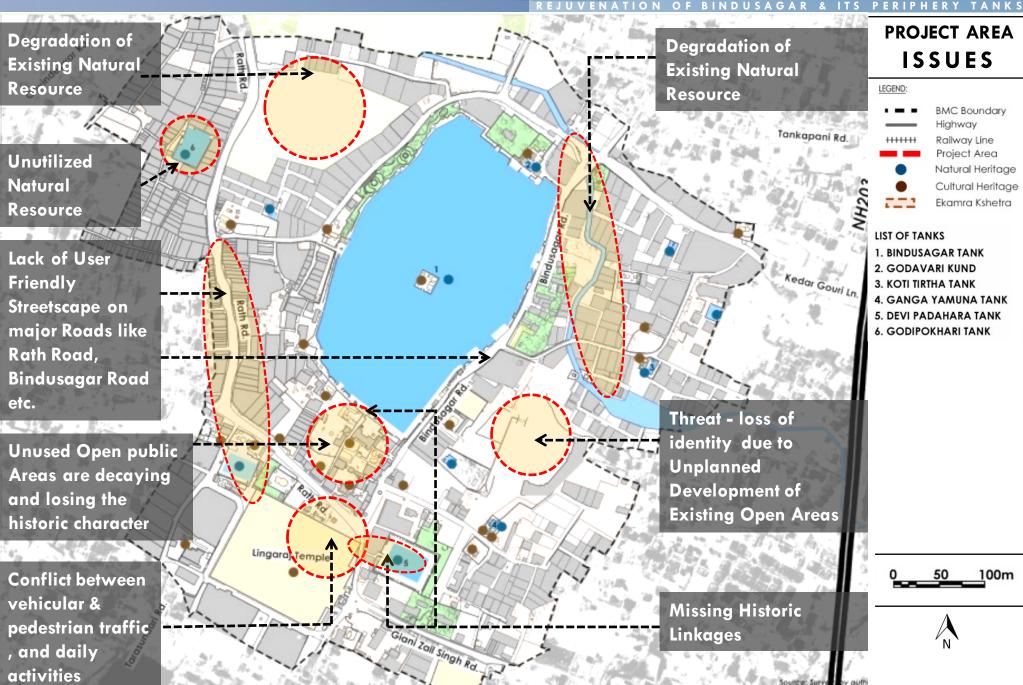


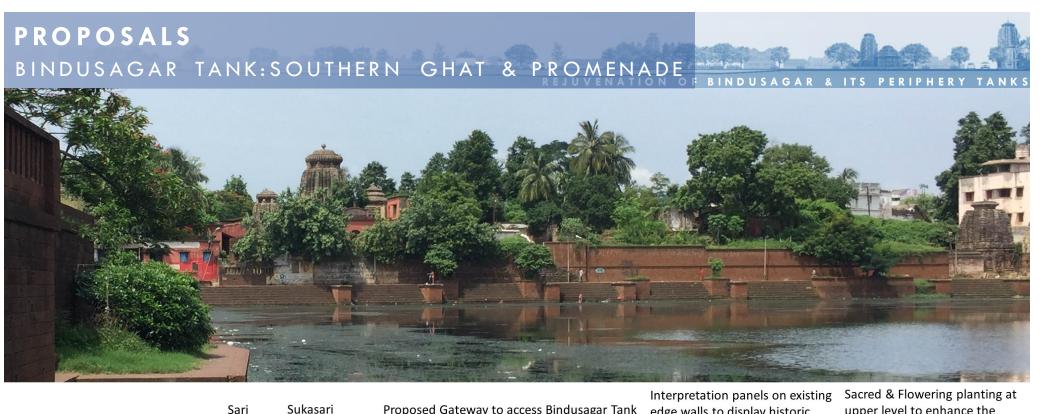




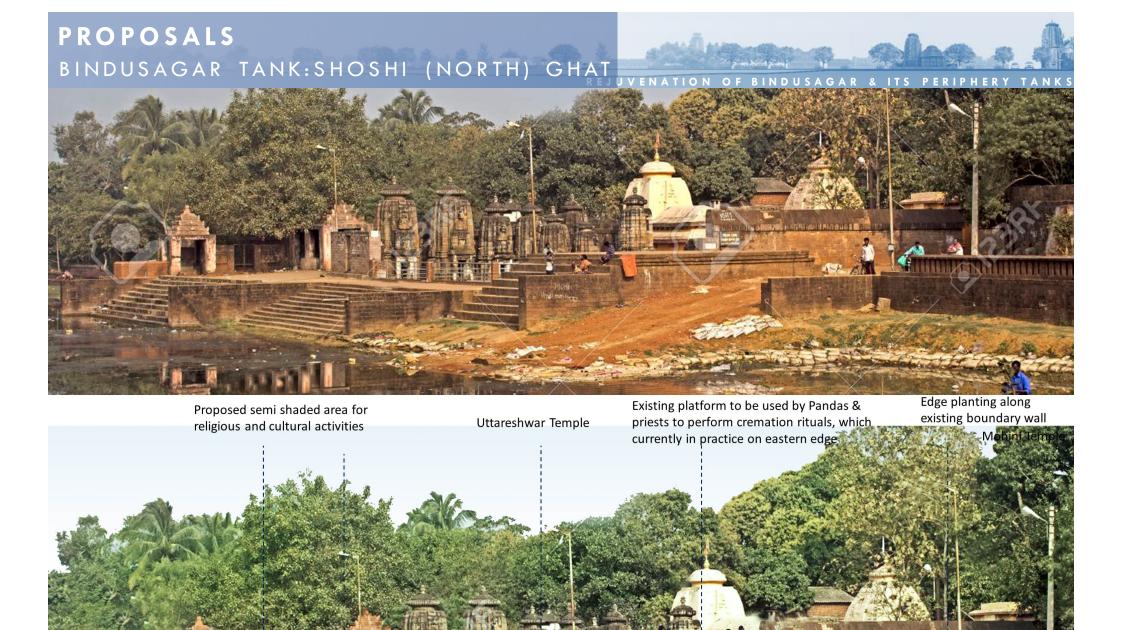
SITE ISSUES PROJECT CONTEXT LEVEL





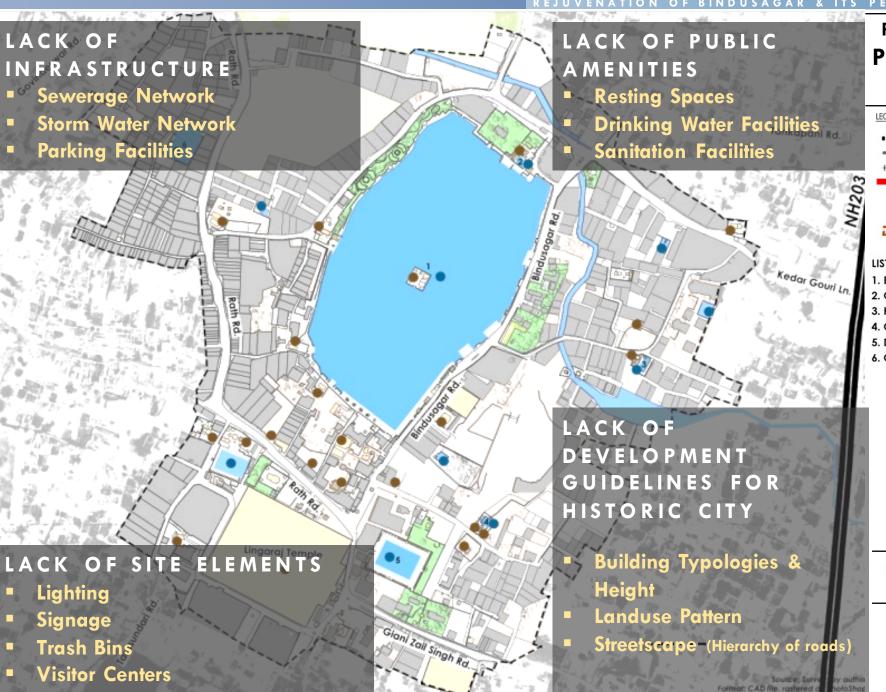






PLANNING ISSUES PROJECT CONTEXT LEVEL





PROJECT AREA PLANNING ISSUES

LEGEND:

<u>=</u>:

BMC Boundary Highway



Railway Line Project Area



Natural Heritage Cultural Heritage

Ekamra Kshetra

LIST OF TANKS

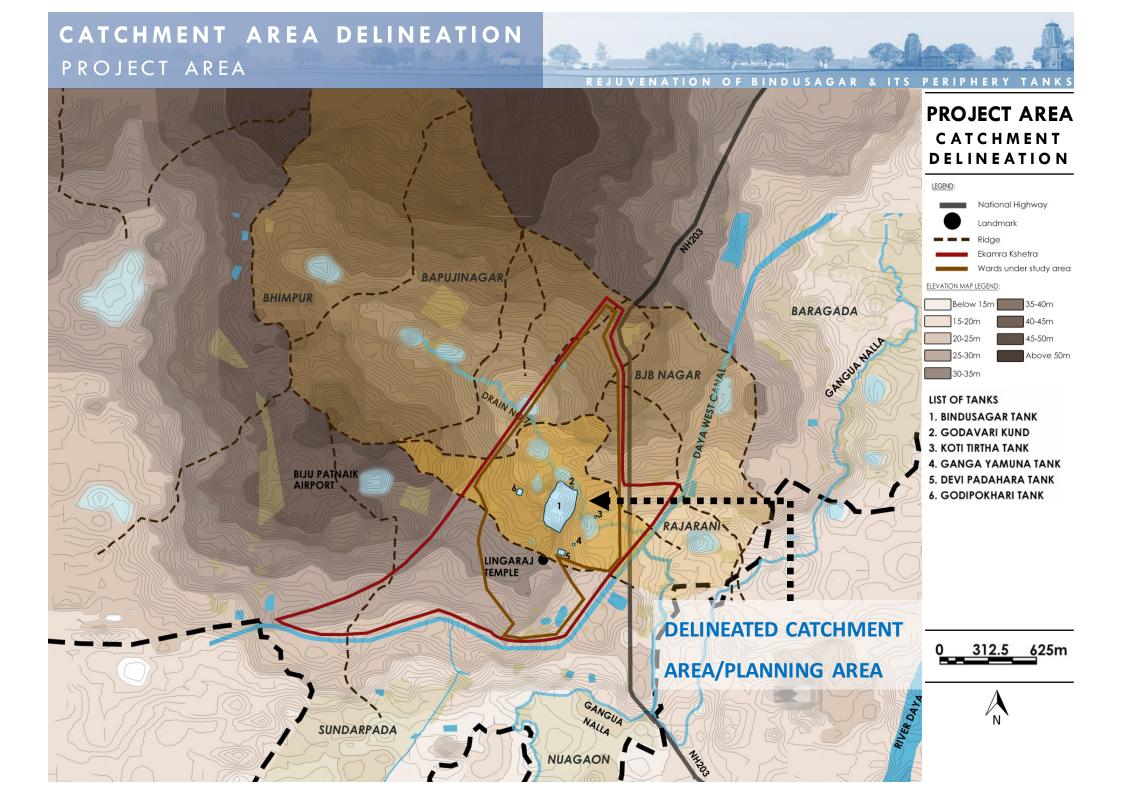
- 1. BINDUSAGAR TANK
- 2. GODAVARI KUND
- 3. KOTI TIRTHA TANK
- 4. GANGA YAMUNA TANK
- 5. DEVI PADAHARA TANK
- 6. GODIPOKHARI TANK

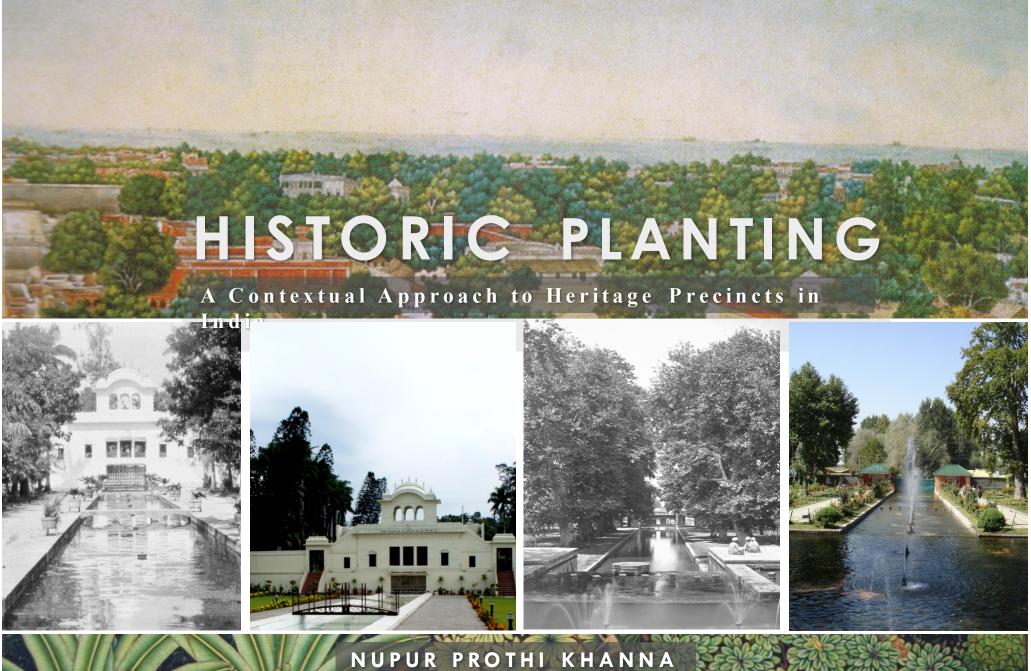
0<u>50</u>100m



HISTORICAL EKAMRA KSHETRA BALHADEVI TEMPLE **KUNDALESVARA TEMPLE** OLD EKAMRA KSHETRA **BINDUSAGAR TANK** KHANDAGIRI CIRCUMFERENCE-10 MILES (APPROX.) Notes from https://whc.unesco.org/en/tentativelists/5916/ DHAULI Image © 2018 DigitalGlobe

CATCHMENT AREA DELINEATION AS PER PHYSIOGRAPHY **URBAN CONTEXT** Various natural drains flows from north east to south east towards daya river PHYSIOGRAPHY & The drain formation is a result of topographic setting of the region DRAINAGE Drain no 7 plays a vital role as all the tanks in study area are part of the catchment of Drain no 7 **Municipal Boundary** Highway Ridge Watersheds Study Area **ELEVATION MAP LEGEND:** DRAIN 2 10-20m 20-30m 30-40m 40-50m DRAIN 4 50-60m 60-70m 70-80m 80-90m 90-100m Above 100m DRAIN 9 2 kms.





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Cover Slide Credits

Painting by Muzher Ally Khan, 1848 Delhi : A living Heritage, INTACH

Pinjore: www.crci.co.in/Shalimar Garden: http://www.bl.uk/onlinegallery/onlineex/apac/photocoll/s/
019pho00000222u00068000.html

COMPONENTS OF PRESENTATION

REJUVENATION OF BINDUSAGAR & ITS PERIPHERY TANK

AESTHETICS

AUTHENTICITY

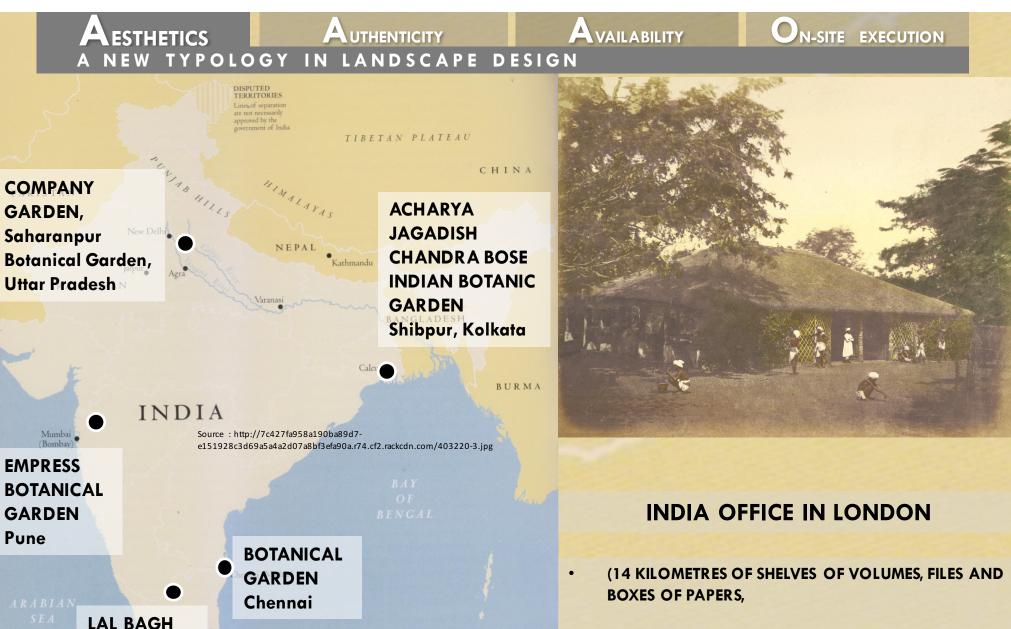
AVAILABILITY

ON-SITE EXECUTION

ON-SITE EXECUTION **A**VAILABILITY AUTHENTICITY **A**ESTHETICS HISTORIC EVOLUTION OF PLANTING AESTHETICS

MOHAMMAD SHAH'S TOMB, LODHI GARDEN | SAYYID DYNASTY

Source: http://www.shunya.net/Pictures/NorthIndia/Delhi/LodiGarden18.jpg



- 70,000 VOLUMES OF OFFICIAL PUBLICATIONS
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BOTANICAL GARDENS OF INDIA

SRI

BOTANICAL GARDEN

Bangalore



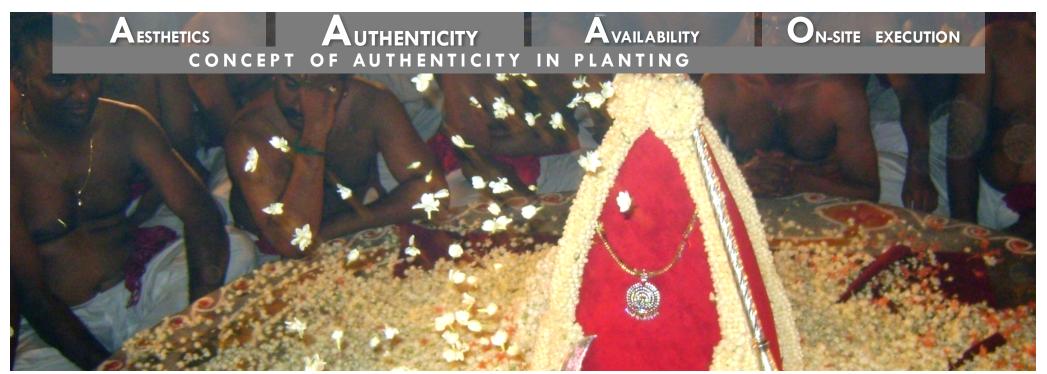




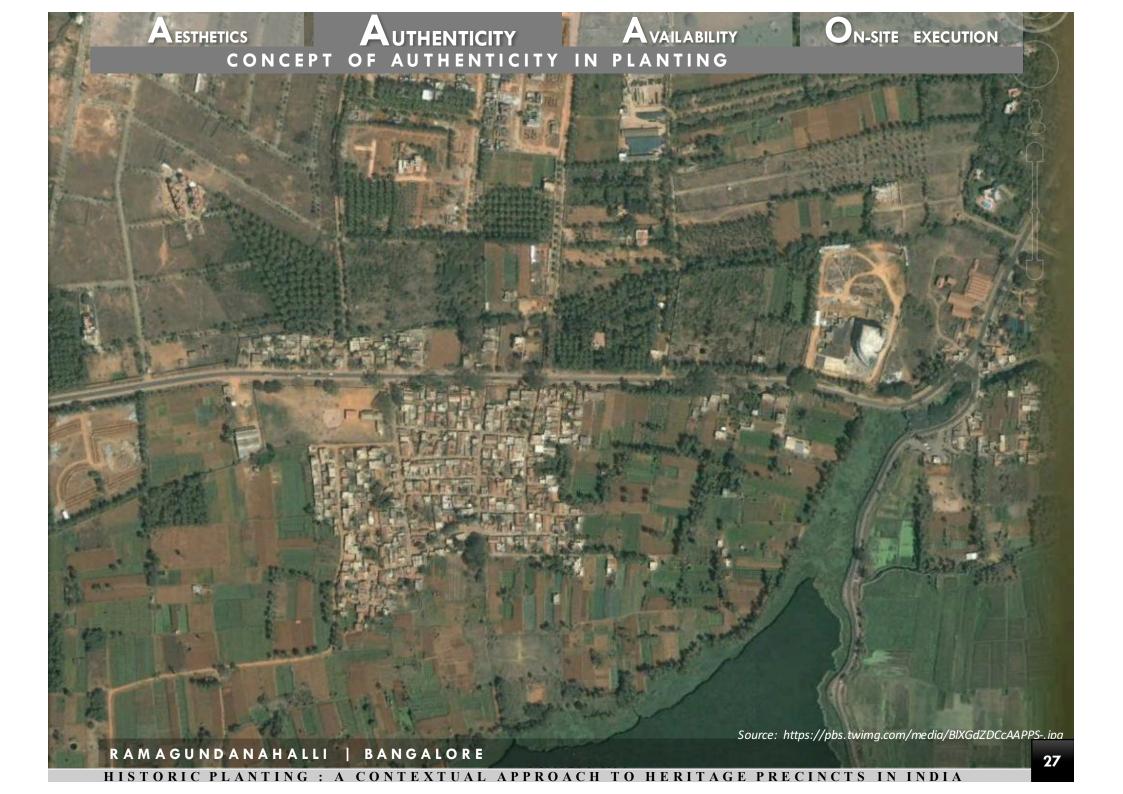
PAINTINGS OF NAGAUR

Source : Giles Henry Rupert Tillotson. Nagaur: A Garden Palace in Rajasthan









WAY FORWARD

Reading the landscape

Delineating boundaries and buffers of based on terrain and natural features and natural cycles

A Landscape approach to be applied for understanding the site, and offering long term solutions

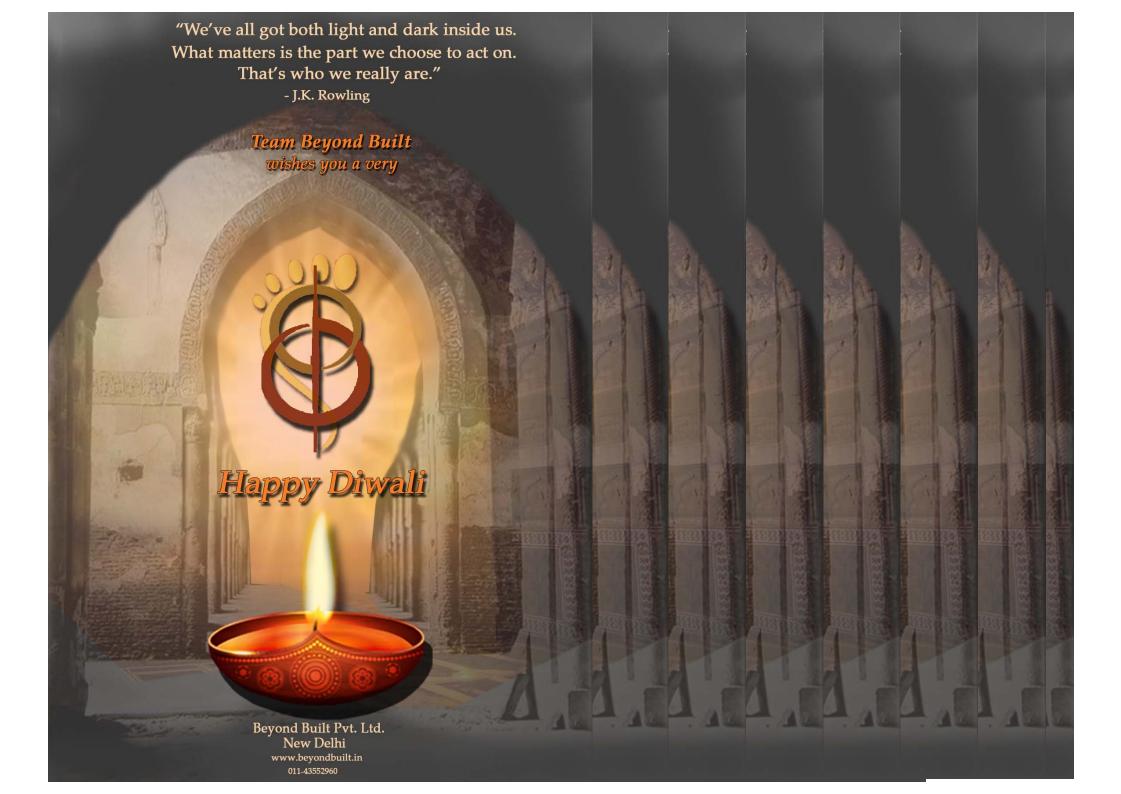
Site Intervention/Interpretation: interweaving narratives of natural context in interpretation and design

Nature based solutions and SDG Goals (World Water Week, Stockholm)

Time for Pilots is over (Jeremy Rifkin, Climate change planning ISOCARP Plenary, Bodo)

Cross fertilisation and across silos of expertise

Community driven solutions: Finding champions for the cause amongst communities, experts, political leadership



Culture Nature Journey, Symposium on Heritage and Democracy at 19th General Assembly, Delhi, 12th-13th December 2017

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Culture Nature Journey, World Congress of IFLA (International Federation of Landscape Architects, Singapore, 18th -20th July 2018

Culture Nature Journey, US ICOMOS, San Francisco, Forward Together, 13-16th November 2018

Thank you for listening

nupurprothi@gmail.com www.beyondbuilt.in