







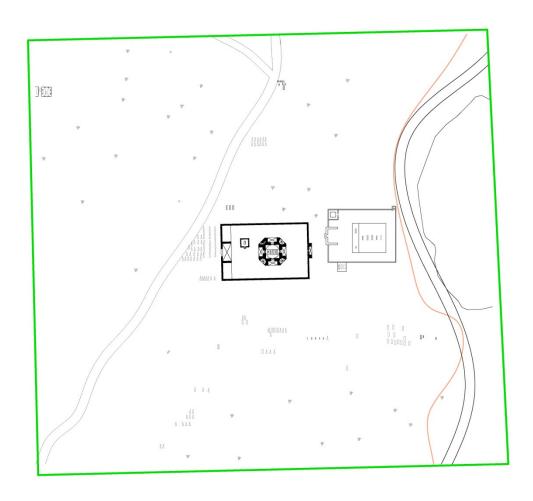
PRESERVATION OF TOMBS OF SULTAN IBRAHIM & AMIR SULTAN MUHAMMAD, WHS MAKLI

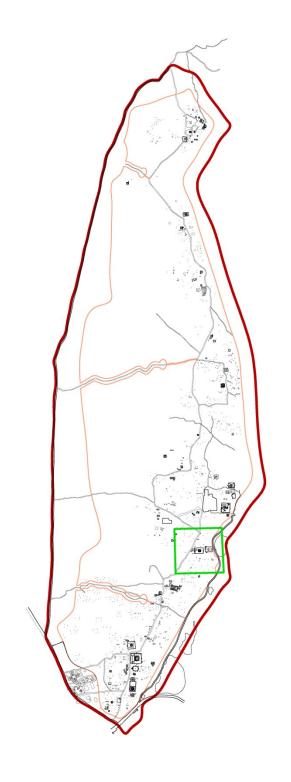
1ST CONSULTATIVE COMMITTEE MEETING

Folio II – Introduction to AFCP Project



SITE MAP OF MAKLI LOCATION OF SULTAN IBRAHIM TOMB

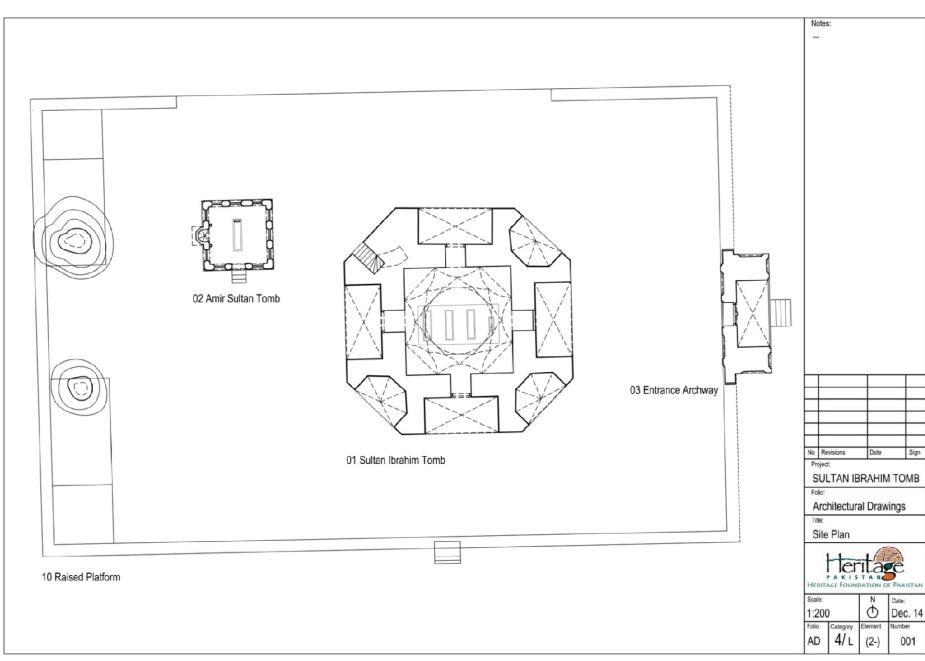












Site Plan

PROJECT SCOPE

PROJECT PERIOD

15 September 2014 to 14 August 2016

PROJECT

Conservation Works

- 1. Tomb of Sultan Ibrahim
- 2. Tomb of Amir Sultan Mohammad
- 3. Gateway Arch
- 4. Treatment of collapsed structure
- 5. External works; Removal of wild growth, plantation, signage



PRESERVATION/CONSERVATION WORKS

OUTLINE OF PRESERVATION/CONSERVATION WORK

- Cleaning external and internal brick masonry, glazed tiles, stone masonry, all internal surfaces.
- Underpinning of damaged / robbed out brick masonry.
- Water tightening by pointing and grouting of open joints and cracks.
- Restoration/ repair of dressed stone flooring on platform.
- Restoration/conservation of glazed tile (kashi) work carrying
 Quranic verses, interlacements, geometric and floral patterns.
- Restoration of internal stucco and plaster surfaces
- Provision of wooden door; closing openings for protection from birds.
- Restoration of stone ornamental jali (lattice screen).
- Restoration of the broken finial of the tomb.
- Restoration of enclosure.
- Treatment of collapsed mosque chamber.
- Restoration of internal stucco and plaster surfaces.



PROJECT TIME LINE

Phase I: March 2014 to June 2014

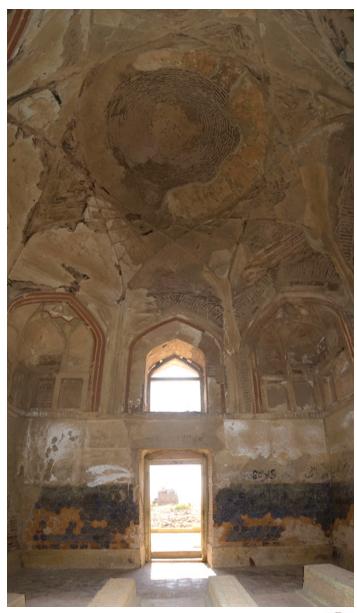
Base Line Information

- Setting up Documentation Centre
- Geo-technical Study
- Structural Evaluation
- Condition Survey/Damage Assessment
- Physical Survey
- Photographic Documentation
- Material Testing and Analysis.

Phase II: March 2015 to February 2016

Conservation and Restoration

- Structural Stabilization
- Brick masonry rehabilitation
- Conservation of Decorative Features
- Cleaning up and Restoration of External Area.
- Plantation





PROJECT TIME LINE

Training & Capacity Building: November 2014 to Feb. 2016

Field Training of Conservation Personnel

- Importance of Monuments
- Dry Cleaning & Wet Cleaning
- Mortar Treatments for Brick & Stone
- Masonry Underpinning
- Securing Original Stucco, Kashi

Setting up artisans' workshops

- Lime Slaking Procedures
- Brick Making & Firing
- Glazed Tiles Studio
- Stone Carving Studio

Community Outreach

- Volunteers
- Schools
- Women





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1.1 Physical survey				Π.			77			:										:								:
1.2 Photographic documentation and Condition Survey		Ξ					77			·:·	:::	: :					: :		: :		: :						:	:
1.3 Structural and Geotechnical Studies		· ::		:			77		···•	::	: :	: :	: :	: :	:						: ::						:	:
1.4 Testing and Material Analysis		:					"		```	:	<u> </u>			: :			: : :			:				:				:
2.Phase II	: :	Ť					Ϋ́												: :									
2.0.1 Consultative Committee meetings		Ξ.																										
2.0.2 Students (Red) and community (yellow) Activity	: :	÷				: :				Ĭ.								•		•						_		}
2.0.3 Scaffolding erection and support to vulnerable parts	· · · · · · · · · · · · · · · · · · ·	· ::		-																								
2.1 Sultan Ibrahim		•		· · ·						:																		:
2.1.1Scientific cleaning		* :	-	· ··· ·			77				Ε.	: :		: :	:		: :	11	: :	•							:	:
2.1.2Brick masonry rehabilitation		• :		• • •					••••	•									Ϋ́						•	• • • •		:
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2.1.4:Lime render, plaster and Decorative features		•		· :: ·			•		••••	• • •		: :								•								:
2.1.9-Miscellaneous		• ÷		• • • •			***		• • • • • • • • • • • • • • • • • • • •	•	} : <u>;</u> :				• :	• • •				•		•					•	:
2.2Tomb Enclosure of Amir Sultan		÷	+:	· :: ·			**		• • • • • • • • • • • • • • • • • • • •	• • •		-								· :· ·								:
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2.3:Mosque Chamber		•	÷	• :			•		•••••	• • •	; ::::	: :		: }												• • • •	. :	:
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2.5 External Works		·÷		٠			• • •	•	• • • •	• • •			•		•		• •		÷÷	• • •					•			•
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2.5.4Arrangement for pathways and drainage 2.5.5Plantation		•		٠		• • •	}		• • • • • •	• :	ļ.;.			i				•		. <u>.</u>				• :	• • • •			
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2.5.6 Design and installation of visitors' information		•					•		•••••	÷	 		•				÷÷	•		÷				•	• • • •			
3Workshops and Training									;.;	. <u>;</u> .	; . . .	ļ. į.			• • •				÷. ÷.			-					<u>.</u> .	
3.0.1 Training for personnel for site works		. ÷.	4							÷	<u>.</u>								-	÷.							, . . .	:
3.0.2 Lime slaking and production		٠.		<u>.</u> .					;		ļ. <u>.</u>	ļ. <u>.</u>	i			. ; .	<u>.</u> ;.		<u></u>	. <u>.</u> .	<u>.</u> .						; .	:
3.0.3 Setting up brick making workshop & production		;.		. .	: . <u>.</u> .	<u>: .</u> l			;.;		ļ.;.	ļ. į.	<u>.</u>				;. <u>;</u> .	L.,	<u> </u>								<u>.</u> .	:
3.0.4 Glazed tile workshop- activating kiln & production			<u>:</u> :						;.;	. ; .	; <u>;</u> .	<u>;.</u> ;.	:.: .	: . :	. ; .		<u>:</u> :	<u></u>			<u></u>				.;.;	.;.;	; .	
3.0.5 Stone carving & production		:	: :	:	:	: :								;					: :									

PROJECT DELIVERIES I – SEPTEMBER 2014 TO FEBRUARY 2015

12th September, 2014: Signing of Project Agreement between CEO Heritage Foundation of Pakistan and US Embassy Islamabad

15th September, 2014: Announcement of Project by HE US Ambassador Richard Olsen and Ms. Sharmila Faruqui, Culture Minister, Gov. of Sindh

10th October, 2014: Physical Survey of Building initiated.

15th October, 2014: Memorandum of Understanding signed between Department of Culture and Heritage Foundation of Pakistan

5th November, 2014: Permission granted by Department of Culture for construction of workshops and artisans' ateliers at WHS Makli

5th November, 2014: Structural Studies initiated by Engr. Amin Tariq

8th November, 2014: Heritage Façade Cleaning and Mural Painting Activity at Sultan Ibrahim and Amir Sultan Muhammad at WHS Makli.

10th November, 2014: Heritage Foundation of Pakistan Teams undertaken parallel studies at tombs.



PROJECT DELIVERIES II – SEPTEMBER 2014 TO FEBRUARY 2015

15th November, 2014: Boreholes by Geotechnical Experts at site by Consolidating Engineering Services.

5th December, 2014: Erection and testing of sample Scaffoldings at site.

30th December, 2014: Securing doors and ventilator openings with bamboo

7th January, 2015: Condition Survey initiated by Ar. Saba Samee. Selection of sand sources, and amples for matching mortars.

22nd January, 2015: Material Samples and Testing undertaken for compositions and chemical properties of historic materials.

30th January, 2015: Artisans workshops and Studios completed.

18th February, 2015: Work on Scientific Dry Cleaning begun after workshop for artisans and HF supervising staff.

24th February, 2015: Women's Assembly held for community around WHS Makli by HF staff.

SWOT ANALYSIS - TOMB OF SULTAN IBRAHIM

STRENGTHS

Structurally Strong Celebrated Architectural Style Historicity

VALUES
Historical, Architectural,
Aesthetic, Economic

WEAKNESSES

Large Number of Interventions
Deteriorating Mortar Pointing
Unstable Dome

VALUES
Adaptive Reuse, Commercial

OPPORTUNITIES

Well Located
Part of WHS
Raised Awareness through HF
National Ownership

THREATS

Environmental Public vandalism Graffiti



PRESENTATION FOLIOS

- Folio 1: Introduction to WH Makli
- Folio 2: Introduction to AFCP Project
- Folio 3: Significance & Values
- Folio 4: Architectural Drawings
- Folio 5: Numbering System
- Folio 6: Photographic Documentation
- Folio 7: Image Superimposition
- Folio 8: Historic Brick and Glazed Tiles Analysis
- Folio 9: Geotechnical & Structural Consultants' Assessment
- Folio 10: Condition Survey, Guiding Notes, Damage Assessment
- Folio 11: Material Treatments and Guidelines

