Preservation of
Tombs of Sultan Ibrahim
& Amir Sultan Muhammad, WH Makli

1st Consultative Committee Meeting

Folio I – Introduction to Makli
WHS MAKLI

- Largest Muslim Necropolis in the World
- Spread over 12 sq km

HISTORICAL PERIODS

- Samma Period 14th–16th c. .......... 19
- Arghun Period Early to Mid 16th c. ...... 5
- Tarkhan Period Mid to Late 16th c. .... 14
- Mughal Period 17th to 18th c. .......... 37

NO. OF HERITAGE ASSETS

- Number of Monuments ........ 75
- Platforms ......................... 402
- Stone graves ...................... 454
- Plastered graves ................. 1713
- Rubble graves .................... 1251
Buffer Zone

Core Zone

Jangshahi Road

Proposed L-EPIL Centre

From Karachi

**FIRST MAP OF WHS MAKLI**
**PREPARED BY HF, 2013**

**Evaluation of Heritage Site**

1981  Inscribed on World Heritage List

2006  World Monument Fund Watch List; UNESCO/ICOMOS Mission

2009  World Heritage Comm. Session 33 with long list of requirements

2010  World Heritage Comm. Session 34 UNESCO Emergency Mission; Makli Site threatened by displaced persons

2012  Transfer of Heritage Sites to Sindh

2013  Danger of World Endangered List averted due to work by HF with Direct. of Archaeology, GoS

2015  Deadline for Compliance
SHRINES AT MAKLI
PREPARED BY HF, 2013

SUFI SHRINES
- Abdul Shah Asabi
- Satiyun
- Fazal Shah Qadiri
- Baba Qasim
- Karim Bukhari Shah
- Ghoder Shah
- Juman Shah Jalali
- Mai Makli
- Miran Pir
- Shah Pariyun
- Sheikh Jia
- Abdul Rehman L. Baba
- Syed Bhagdadi Shah
- Isa Khan Langoti
- Shah Murad
- Shirazi
- Jalal Shah
- Mitho Pir
- Shah Ibrahim/Bablo Fakir
- Shah Jhando
Threats to Historic Site

Influx During Floods 2010

New Graves  Land erosion/Unguarded  New Construction
ENDANGERED STATE OF MONUMENTS

4-1.01 Khanqah Sh Hammad Jamali

4-1.02 Jamia Masjid

4-1.05 Tomb Nuri & Jam Tamachi

4-1.17 Kaus Sultani
ENDANGERED STATE OF MONUMENTS

4-4.03 Chattri near Amir Khan Enclosure
4-4.13 Baradari
4-4.17 Unknown Enclosure
4-4.18 Unknown Enclosure
Devotional Carving in Stone
**Scintillating Kashi (Glazed Tiles)**
HF WORK AT MAKLI
Documentation 1987, Publication 1993
HF WORK AT MAKLI WITH PRINCE CLAUS FUND
Damage Assessment Mission, 2010

Heritage Foundation’s
Damage Assessment Mission to the Necropolis of Makli at WHS Thatta, Pakistan
Supported by Prince Claus Fund for Culture and Development

Damage Assessment Mission to Necropolis of Makli, Thatta, Pakistan
Cluster 4: Mughal Monuments

Heritage Foundation of Pakistan

1. **Mirza Jani & Mirza Ghazi Baig’s Tomb**
   - Date: circa Early 17th c.
   - GPR: N 24 - 45.199, E 67 53.981, 37m
   - The original brick tomb of Mirza Jani Baig and Mirza Ghazi Baig is placed on a high plinth. Its unusual cupola houses pierced openings, with extensive use of glazed tile on external and internal faces. Reconstruction of cupola and new glazed tile work is in progress. Important to conserve all original features, in particular the stone lattice screens. Brickwork requires stabilization and filling mortar joints to stop further degradation.
   - No damage due to 2010 rains and influx visible.

2. **Tomb of Khushru Khan Charkhas**
   - Date: circa Early 17th c.
   - GPR: N 24 - 45.189, E 67 53.223, 31m
   - Popularly known as Sanhass, it is a highly complex structure with innovative use of arcade imagery in finely fired burnt brick. The tomb on a stone platform is believed to be of a Khushru Khan Charkhas, a descendant of Chengi Khan, who began his service under Iltu Khan the Elder.
   - The dome and upper structure have collapsed. The repairs carried out in the past have not halted its degradation and requires great efforts for protection.
   - Damage due to rains and influx cannot be determined.

3. **Tomb of Nawab/Dewan Shusta Khan**
   - Date: circa 17th c.
   - GPR: N 24 - 45.249, E 67 53.982, 29m
   - The unusual and impressive tomb of Aga Khan minister Dewan Shusta Khan (d. 1638) stands on a brick platform. Its dome crowned on a drum. Semi-circular stair towers form corners of square footprint. Some of fine glazed tile (kali) intact.
   - Over several years restoration was carried out with new hauli work. Severe disintegration and erosion in many parts of brick masonry and khali.
   - No damage due to 2010 rains and influx visible.
HF WORK with Prince Claus Fund
Emergency Assistance to Ruin of Samma Noble I, 2012-13
HF WORK AT MAKLI WITH EFT
Cataloguing & Numbering Heritage, 2012

Cataloguing and Numbering of Heritage Assets at World Heritage Site Makli, Thatta

Collaboration:
Endowment Fund Trust for Preservation of Sindh Heritage
Department of Culture, Government of Sindh

Prepared by:
HERITAGE FOUNDATION OF PAKISTAN

<table>
<thead>
<tr>
<th>Heritage Site</th>
<th>Number</th>
<th>Heritage Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Darya Khan Raha</td>
<td>1(2)</td>
<td>AH 831-577/426-1453 AD</td>
</tr>
<tr>
<td>Samma Noble 1</td>
<td>1(2)-08</td>
<td>AH 858-866/1434-51 AD</td>
</tr>
<tr>
<td>Samma Noble 2</td>
<td>1(2)-09</td>
<td>AH 858-866/1454-61 AD</td>
</tr>
<tr>
<td>Malik Rajab</td>
<td>1(3)-10</td>
<td>AH 881/1457 AD</td>
</tr>
<tr>
<td>Sater Fateh Khan</td>
<td>1(3)-11</td>
<td>AH 866-866/1446-1500 AD</td>
</tr>
<tr>
<td>South Jam Nizam Al Din</td>
<td>1(4)-12</td>
<td>AH 866-866/1446-1508 AD</td>
</tr>
</tbody>
</table>
MAQBARA NURI AND JAM TAMACHI
TOME, SUPER STRUCTURE ON STONE PILLARS NORTH OF JAM MAZUM AL DIN

**Description**

This monument is the earliest polygon pavilion found at Makli Hill, that is built entirely of dressed stone. This chhatri (umbrella) makes its appearance for the first time as a funerary chamber for the celebrated Samma ruler, Jam Tamachi, his queen Nuri and their child. It consists of a 4.87m (16') diameter corbelled dome rising to a height of approximately 4.87m (16') measured internally, and is carried on eight free standing decorative columns capped by bracket capitals.
HF WORK AT MAKLI with SPIRITUAL CHORDS SA
LARI—EMERGENCY PREVENTIVE INTERVENTION 2014–2015

LOW COST METHODOLOGY

Tasks
- Emergency Stabilization through L-EPI First Aid procedures
- Site Works
- Use of mud brick, lime and bamboo
- Use of local workforce
- Training of local artisans

Prior to undertaking L-EPI
- Documentation
- Samples preparation
- Record keeping
- Supervision
HF WORK AT MAKLI WITH NETHERLANDS EMBASSY
Heritage Roundtable conference 2013

First Heritage Roundtable Conference

at
WHS, The Necropolis of Makli, Thatta
Sunday, 3rd March, 2013

Organized By
Culture Department, Government of Sindh
in Collaboration with Heritage Foundation
HF WORK AT MAKLI WITH NETHERLANDS EMBASSY
CURRICULUM FOR HERITAGE MANAGEMENT & TRAINING 2013

Regional Centre for Training
LARI EMERGENCY PREVENTIVE INTERVENTION LAB (L-EPIL)
HF WORK AT MAKLI
HERITAGE FOUNDATION CENTRE & CRAFT STUDIOS 2011-2014
## HF Proposal to UNESCO for First Aid 2011

### WHS Makli Monuments at Thatta

#### Budget for First Aid for Samma Cluster

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Material</th>
<th>Tasks</th>
<th>Approx Cost</th>
<th>Total Rs.</th>
<th>Total Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHS4-1.01</td>
<td>Khanqah of Hammad Jamali</td>
<td>Stone</td>
<td>Collect collapsed parts, provide RSJ support to lintels, clear ground from surrounding area and arrange drainage.</td>
<td>200,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHS4-1.02</td>
<td>Jamia Masjid</td>
<td>Brick</td>
<td>Provide support to arches, apply mud leepai to exposed brickwork, clear surrounding ground and arranged drainage.</td>
<td>400,000</td>
<td></td>
<td></td>
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<tr>
<td>WHS4-1.03</td>
<td>Tomb of Shaikh Hammad Jamali</td>
<td>Brick</td>
<td>Clear surrounding area, arrange for drainage, apply mud leepai to exposed brickwork.</td>
<td>150,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHS4-1.04</td>
<td>Maqbara East of Jamia Masjid</td>
<td>Stone</td>
<td>Collect collapsed part, provide RSJ support to brackets and lintels, arrange for drainage.</td>
<td>150,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHS4-1.05</td>
<td>Pavilion Tomb of Nuri &amp; Jam Tamachi</td>
<td>Stone</td>
<td>Actual conservation to be undertaken after the slope on east has been stabilized.</td>
<td>200,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHS4-1.06</td>
<td>Pavilion Maqbara with Farsi script</td>
<td>Stone</td>
<td>Clear area around and inside pavilion. Arrange for drainage. Fill joints with lime mortar and layer to protect dome stones.</td>
<td>250,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHS4-1.07</td>
<td>Pavilion Maqbara Darya Khan Rahu</td>
<td>Stone</td>
<td>Clear area from around and inside, arrange for drainage. Fill joints with lime mortar, stabilize stone pieces where they are. Add lime mortar cover layer where necessary.</td>
<td>300,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHS4-1.08</td>
<td>Maqbara Samma Noble 1</td>
<td>Brick</td>
<td>Applied to Prince Claus Fund for conservation works.</td>
<td>0</td>
<td></td>
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<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>350,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHS4-1.10</td>
<td>Maqbara Malik Rajbai</td>
<td>Brick</td>
<td>Clear area around and inside, arrange for drainage. Provide supports where necessary. Application of mud leepai to exposed brickwork. Fill vulnerable joints with lime/mud mortar. Provide support to extant cupola.</td>
<td>350,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHS4-1.11</td>
<td>Maqbara Sister Fateh Khan</td>
<td>Brick</td>
<td>Clear area around and inside, arrange drainage. Provide supports where necessary. Wide-spread application of mud leepai to exposed brickwork. Fill vulnerable joints with lime/mud mortar. Provide support to extant cupola.</td>
<td>400,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHS4-1.12</td>
<td>Enclosure South of Jam Nizam al-Din</td>
<td>Brick</td>
<td>Provide general clearance and drainage. Apply leepai on top parts of exposed brickwork.</td>
<td>250,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHS4-1.13</td>
<td>Pavilion Maqbara Qazi Abd Alah</td>
<td>Stone</td>
<td>Clear area around and inside, arrange for drainage. Provide RSJ support where necessary. Fill open joints with mortar. Add mud leepai to provide protection. Stabilize loose stones where necessary.</td>
<td>200,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHS4-1.16</td>
<td>Collapsed maqbara of Makhdum Bilawal</td>
<td>Stone</td>
<td>Collect collapsed pieces, clear other matter and arrange for drainage.</td>
<td>150,000</td>
<td></td>
<td></td>
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<tr>
<td>WHS4-1.17</td>
<td>Kaus Sultani</td>
<td>Brick</td>
<td>Clear area around and inside, arrange for drainage. Provide RSJ support where necessary. Fill in open joints with mortar. Add mud leepai to provide protection.</td>
<td>400,000</td>
<td></td>
<td></td>
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<tr>
<td>WHS4-1.18</td>
<td>Tomb of Shaikh Ja</td>
<td>Brick</td>
<td>Clear area around and inside, arrange for drainage. Provide RSJ support where necessary. Fill in open joints with mortar. Add mud leepai to provide protection.</td>
<td>450,000</td>
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<tr>
<td><strong>measures</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>4,200,000</strong></td>
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<tr>
<td>Preliminary condition survey</td>
<td></td>
<td></td>
<td></td>
<td><strong>1,000,000</strong></td>
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<tr>
<td>Structural Consultancy</td>
<td></td>
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<td>700,000</td>
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<tr>
<td>Miscellaneous and contingencies</td>
<td></td>
<td></td>
<td></td>
<td>500,000</td>
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<tr>
<td><strong>Total Estimated Cost for First Aid to Samma Period Monuments</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>6,400,000</strong></td>
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</tbody>
</table>
## Requirements Of World Heritage Centre
**To Save Makli From Being on World Heritage Endangered List**

<table>
<thead>
<tr>
<th>Critical Requirements</th>
<th>UNESCO Agency</th>
<th>Tasks</th>
<th>Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buffer Zone Demarcation</td>
<td>UNESCO/ICOMOS 2006, UNESCO WHC Session 33, UNESCO Emer. Mission 2010</td>
<td>Map of Core &amp; Buffer Zone; Site demarcation</td>
<td>Map by HF; Demarcation by Revenue Deptt needed</td>
</tr>
<tr>
<td>Mapping and Detailed Registration</td>
<td>UNESCO/ICOMOS 2006</td>
<td>Mapping and registration</td>
<td>Completed by HF</td>
</tr>
<tr>
<td>Soil investigation, foundations, stabilization and stability of Tomb of Jam Nizam al-Din</td>
<td>UNESCO/ICOMOS 2006, UNESCO WHC Session 33, UNESCO Emer. Mission 2010</td>
<td>Soil invest. &amp; condition survey; Stabilization</td>
<td>HF completed surveys; stabilization needed</td>
</tr>
<tr>
<td>Prioritize emergency intervention; Emergency shoring &amp; maintenance; prioritization of those at risk of collapse</td>
<td>UNESCO WHC Session 33, UNESCO Emer. Mission 2010</td>
<td>Emergency Intervention</td>
<td>Dedicated team needed. HF has initiated L-EPI</td>
</tr>
<tr>
<td>Monitoring Program; Closing off critical areas</td>
<td>UNESCO WHC Session 33, UNESCO Emer. Mission 2010</td>
<td>Monitoring/ Guarding Required</td>
<td>Culture Dept. GoS to take up</td>
</tr>
<tr>
<td>Master Plan, Management Plan</td>
<td>UNESCO WHC Session 33</td>
<td>Establishment of Board Reqd.</td>
<td>Culture Dept. GoS to take up</td>
</tr>
</tbody>
</table>