Humayun's Tomb Complex

Conservation Works undertaken during 2008-14

Largest Public Private Partnership in India

The Urban Renewal Initiative demonstrates a prototype for urban revitalization with a not-for-profit Public-Private Partnership model. An enhanced level of partnership between the Public and Private Parties in their mutually shared objectives of carrying out a model project leading to conservation based development, improved quality of life for local communities and improved access to basic urban facilities.

Further Information: www.nizamuddinrenewal.org www.facebook.com/nizamuddinrenewa Inquiry: info@nizamuddinrenewal.org

N I Z A M U D D I N URBAN RENEWAL INITIATIVE

Nizamuddin; the name carries the flavour of a heritage rich in history and culture. The importance of its legacy and the environs are not lost on the people of Delhi or indeed, India. The area is visited by millions of tourists and pilgrims from across the world each year.

Since the 13th century the Hazrat
Nizamuddin Area has boasted of a
superior living culture that not only
led to the construction of grand
mausoleums, mosques, step-wells,
enclosed garden's here but also the
creation of cultural traditions of music,
poetry, food, rituals that have defined

both Hindustani culture and Sufi traditions.

Today, recognized as the densest ensemble of medieval Islamic buildings in the country, the area is home to a significant resident community of which a number of families trace their descent to the revered Sufi saint, Hazrat Nizamuddin Auliya, whose Dargah remains at the heart of the settlement.

Humayun's Tomb and several other grand garden-tombs have been built here for 700 years but especially in the 16th century reign of emperor Akbar as it is considered auspicious to be buried near a saint's dargah.

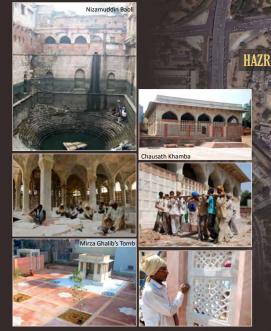
Muhammad Shah
Saiyyad's Tomb
Tughlaq's Tomb
1325 A.D

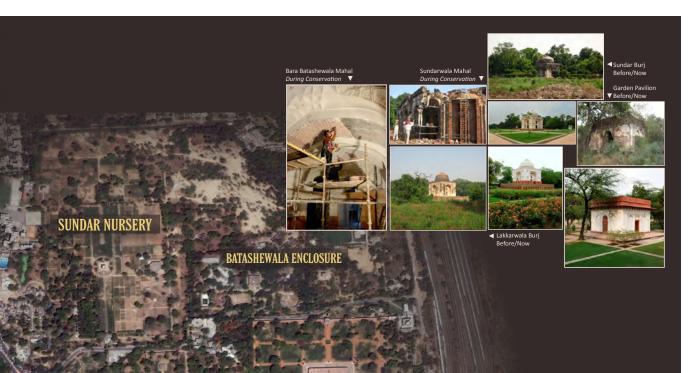
Sultan Ghari
1231 A.D

HERITAGE **CONSERVATION**

The Humayun's Tomb - Nizamuddin Area is one of the densest ensemble of medieval Islamic buildings and 16th century tomb - gardens in India. It is inhabited by a vibrant local community being visited by millions of tourists and pilgrims each year.

Conservation works being undertaken on the monuments in this area are in adherence with the established Indian and international conservation philosophy and principles. It stringently maintains authenticity of the original design in both form and material by employing hundreds of master craftsmen working with traditional building materials. All conservation work is preceded by archival research, high definition surveys, structural assessments and peer review. The Aga Khan Historic Cities Programme projects promote the conservation and re-use of buildings and public spaces in historic cities in ways that can spur social, economic and cultural development.





HUMAYUN'S TOMI

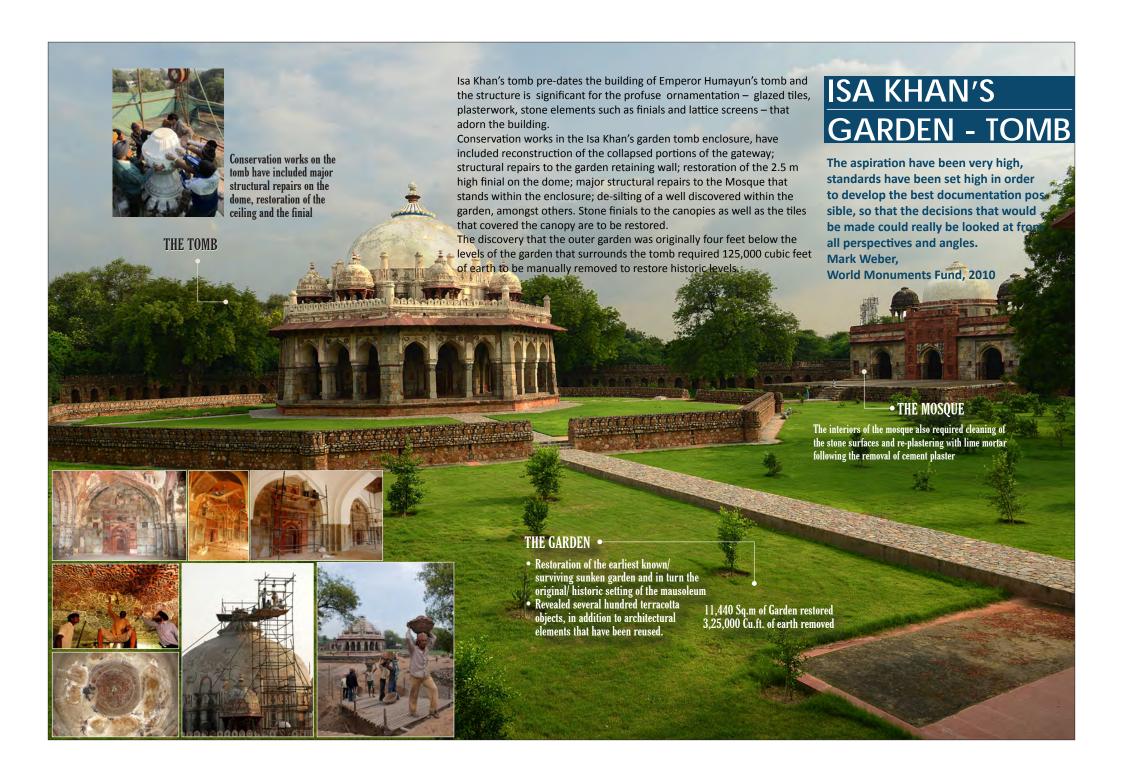


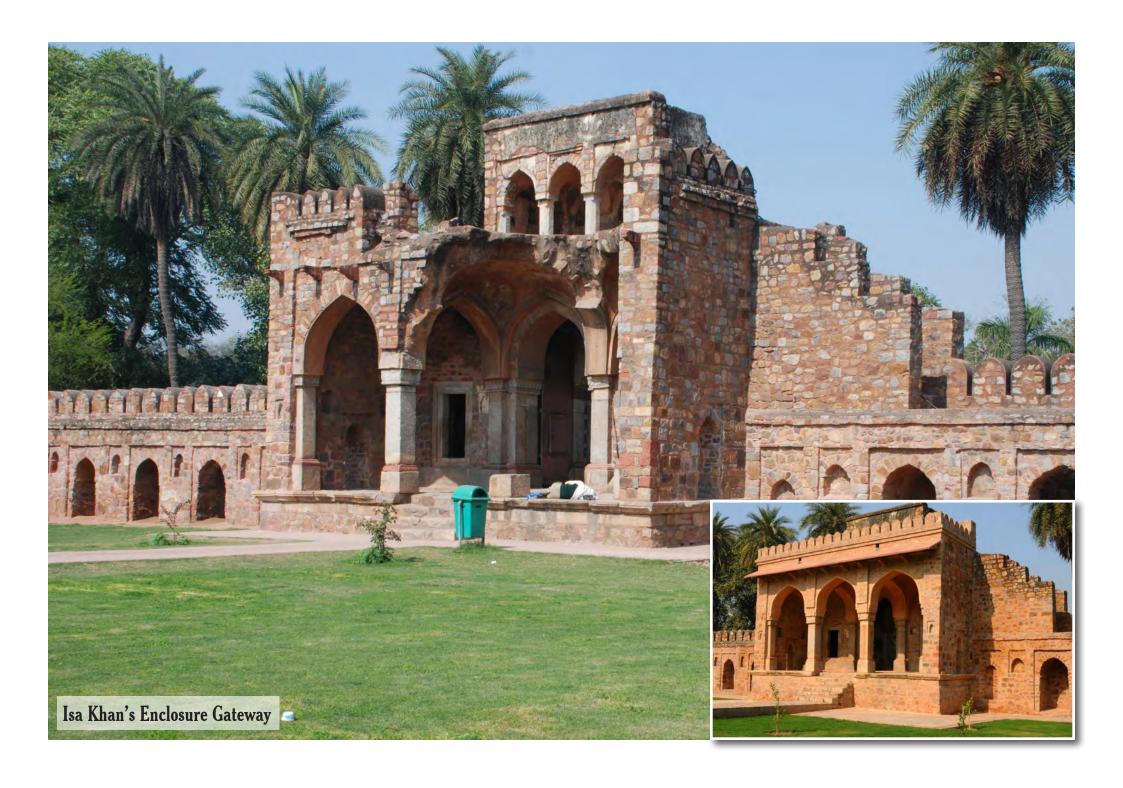








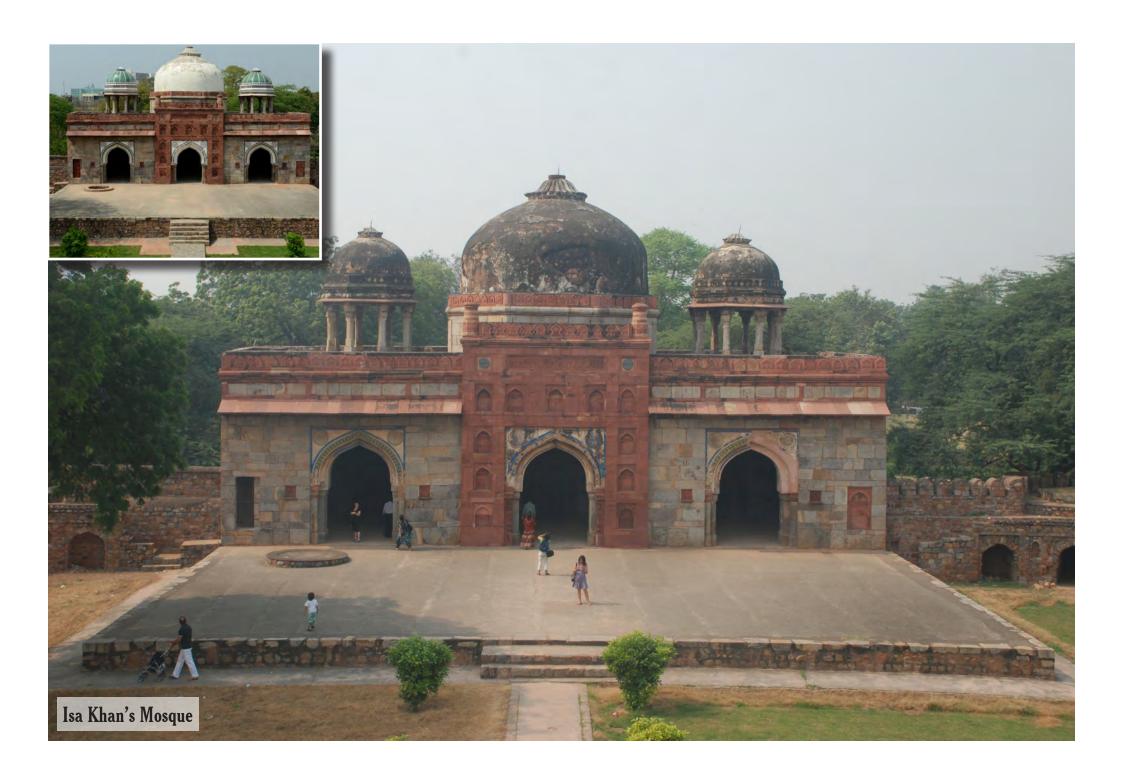


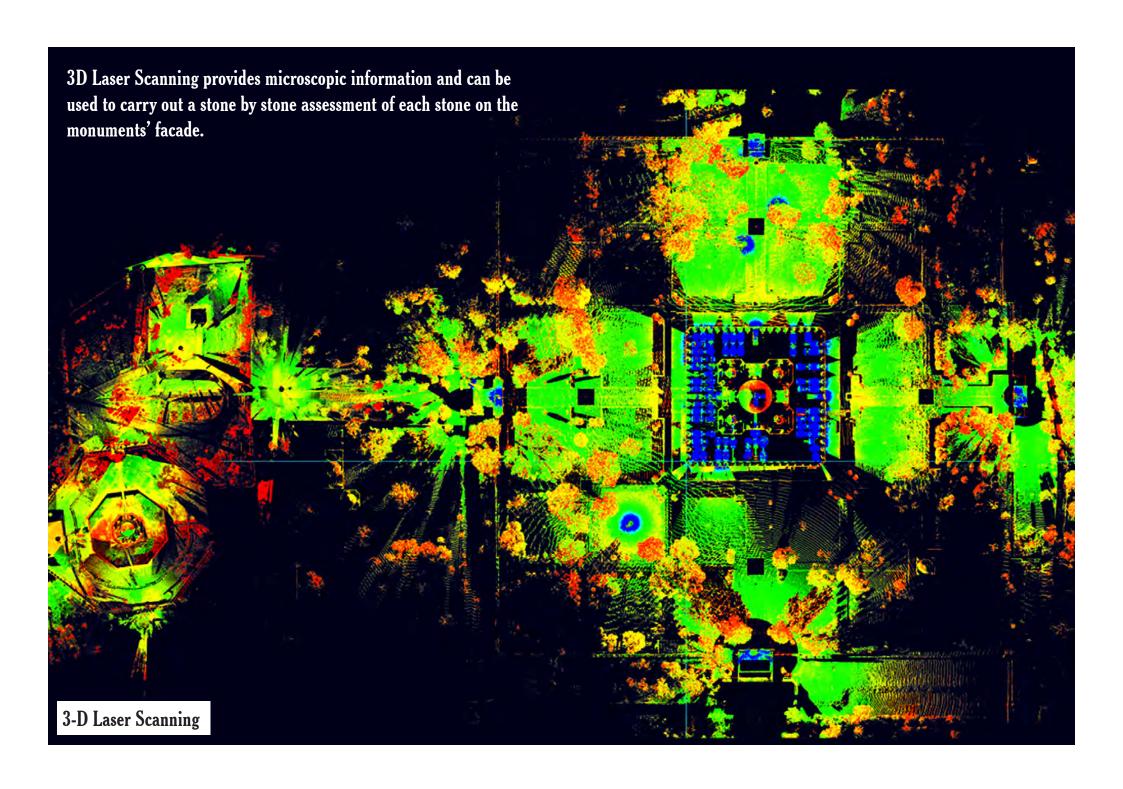






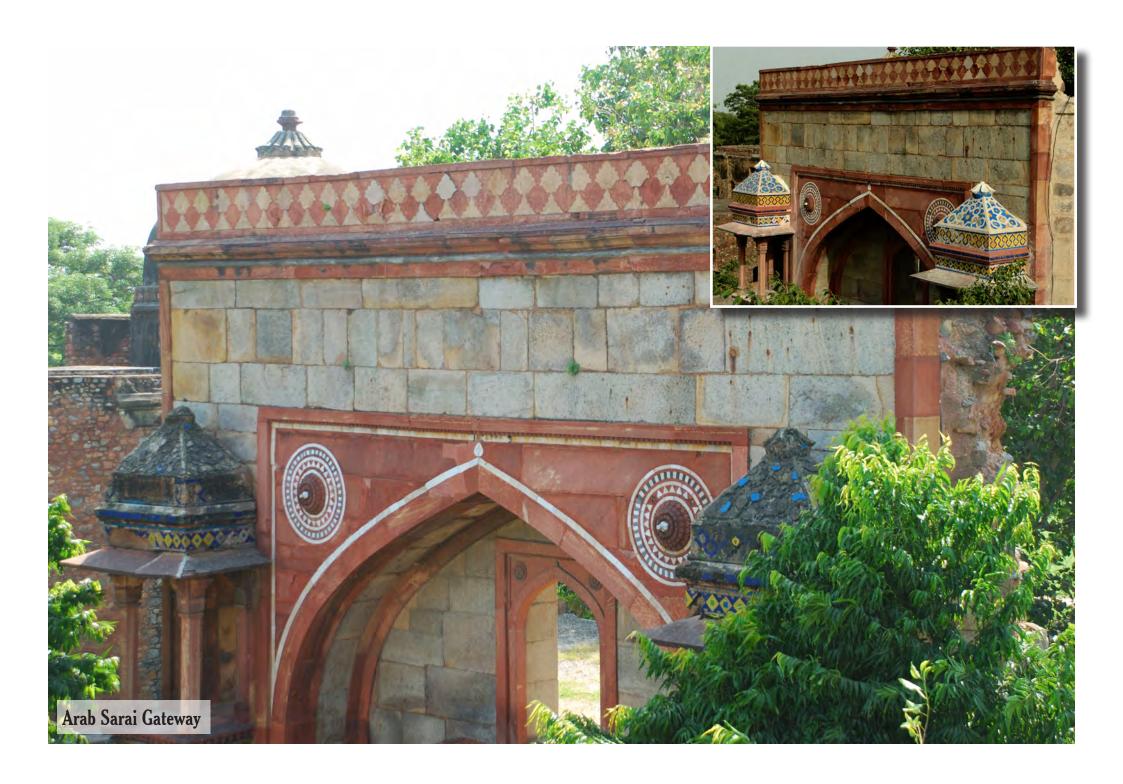


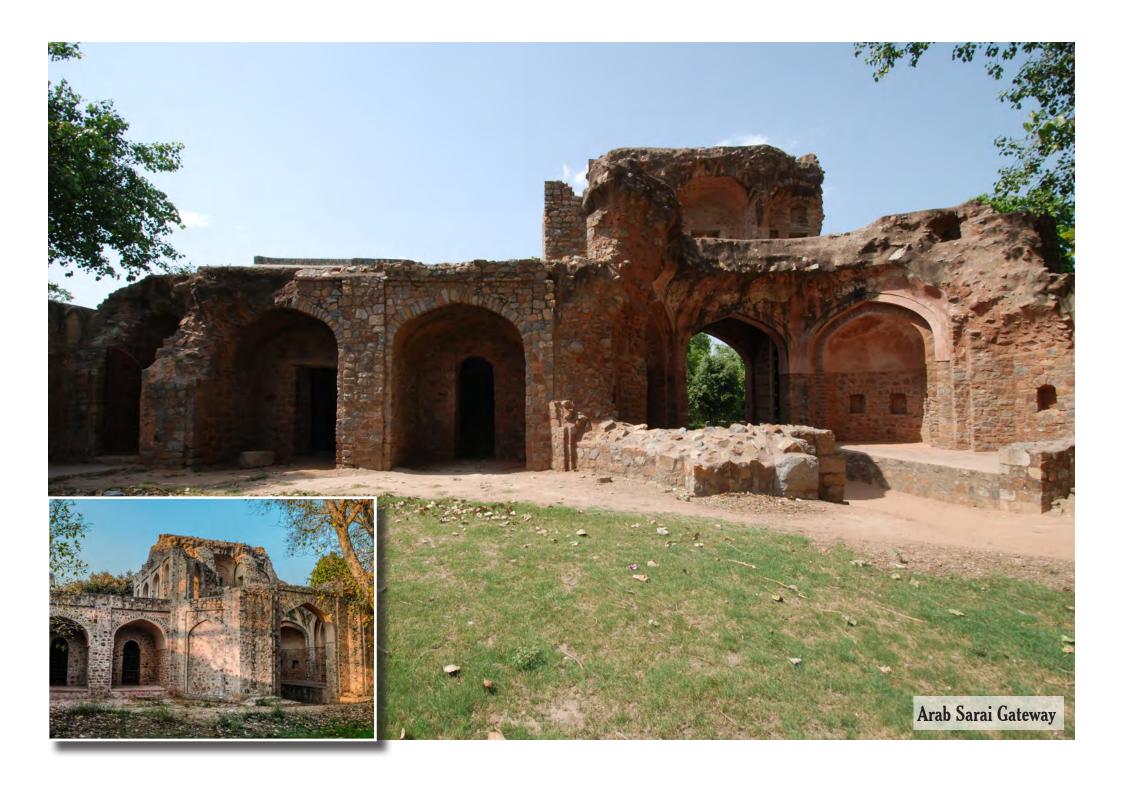


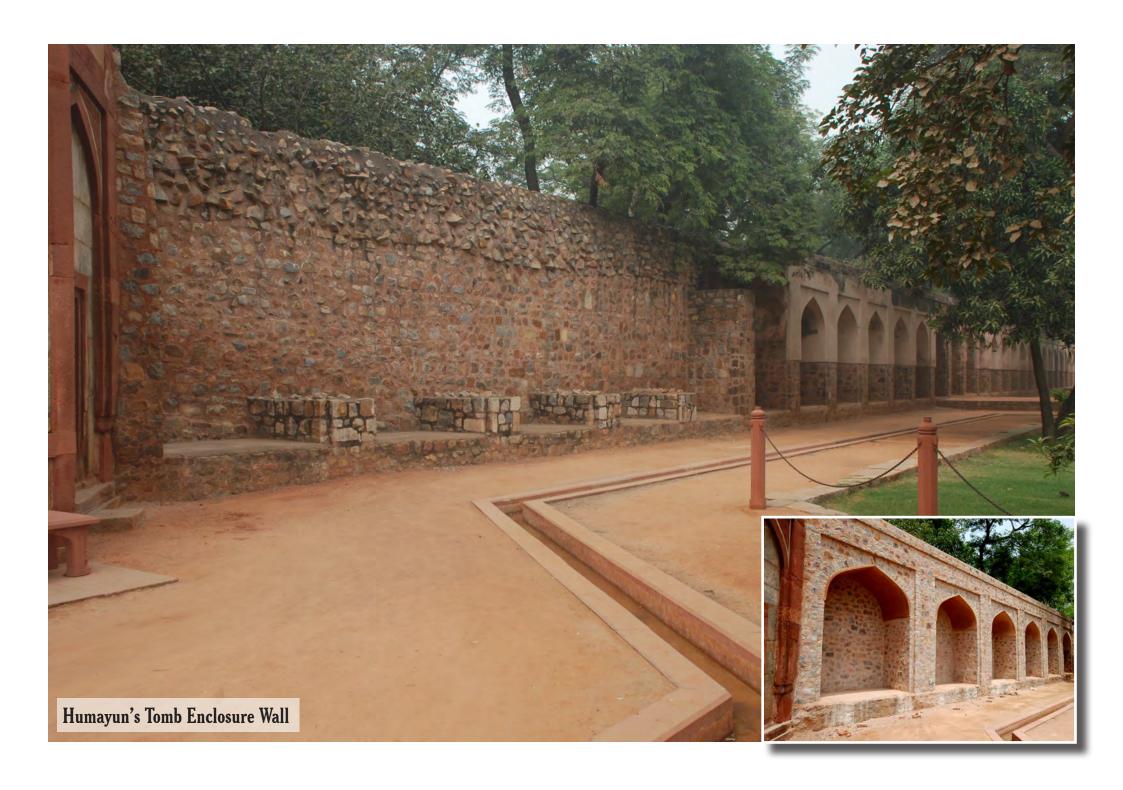












HUMAYUN'S TOMB

CONSERVATION

Working on a World Heritage Site where integrity and authenticity had been compromised by past repairs posed a significant challenge as did the need to reconstruct collapsed portions of structures that had been left unattended for a century.

With the Mughal details uncovered, conserved, restored where these had been obliterated by 20th century repairs, the Mughal grandeur has been once again revealed in parts. Similarly, major works have been undertaken to halt the accelerated deterioration that had set in as a result of past repairs with modern materials.

Million kilos of concrete was removed from the roof, 200000 square feet of lime plaster restored, 40,000 square feet of stone paving lifted and reset on the plinth and similarly on the sandstone platform, wooden doors used as firewood in 1947 restored to the mausoleum and damaged stone on the facade repaired or replaced with stone blocks prepared in the manner of the Mughal builders.

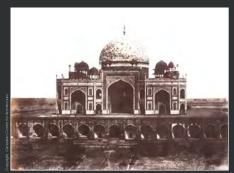


HUMAYUN'S TOMB THROUGH THE AGES

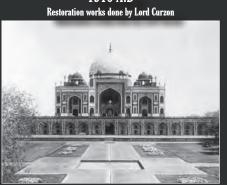
mithsonian Institution, Washington, D.C.

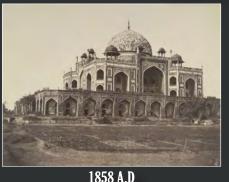
The dome of the tomb chamber is enriched with gilding and enamel; from the centre a tassel of gold lace once depended Major Archer, AD 1828

Built in the 1560's, the mausoleum of Emperor Humayun, was venerated and a place of pilgrimage for the Early Mughals. Built as a family tomb, over 160 mughal family members continued to be buried here until the mid 19th century. With the decline of the Mughal empire, neglect set in and the gardens were used for agriculture in the 18th and 19th centuries. Following the arrest here of Bahadur Shah Zafar, the last Mughal emperor, the British interest increased and a European garden was super-imposed here in the 1860's. In the early 20th century Lord Curzon instructed for the Mughal layout to be restored. In 1947, the tomb was used as a refugee camp and decline once again set in. In 1993 the garden-tomb was inscribed on the World Heritage list and in 1997, Aga Khan Trust for Culture commenced the garden restoration. AKTC commenced conservation of the mausoleum in 2007 with funding support from the Sir Dorabji Tata Trust and in partnership with the ASI. In 1997, the Aga Khan Trust for Culture commenced a major programme, to source archival material related to Humayun's Tomb and its setting. Study of Mughal chronicles and research at worldwide archives has revealed significant information that has informed both the garden restoration and the conservation of the mausoleum.



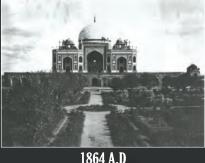
1849 A.D
The Earliest Photograph
1910 A.D
storation works done by Lord Curzo





Agriculture in the walled garden 1947 A.D Refugee Camps during the Partition





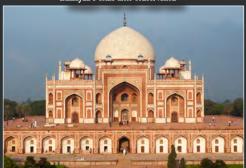
British landscaping of western/ entrance zone of the garden 1997 A.D

The garden, before the 1997-2003 restoration





1880 A.D
The River flowing on the Eastern Edge
2013 A.D
Humayun's Tomb after conservation





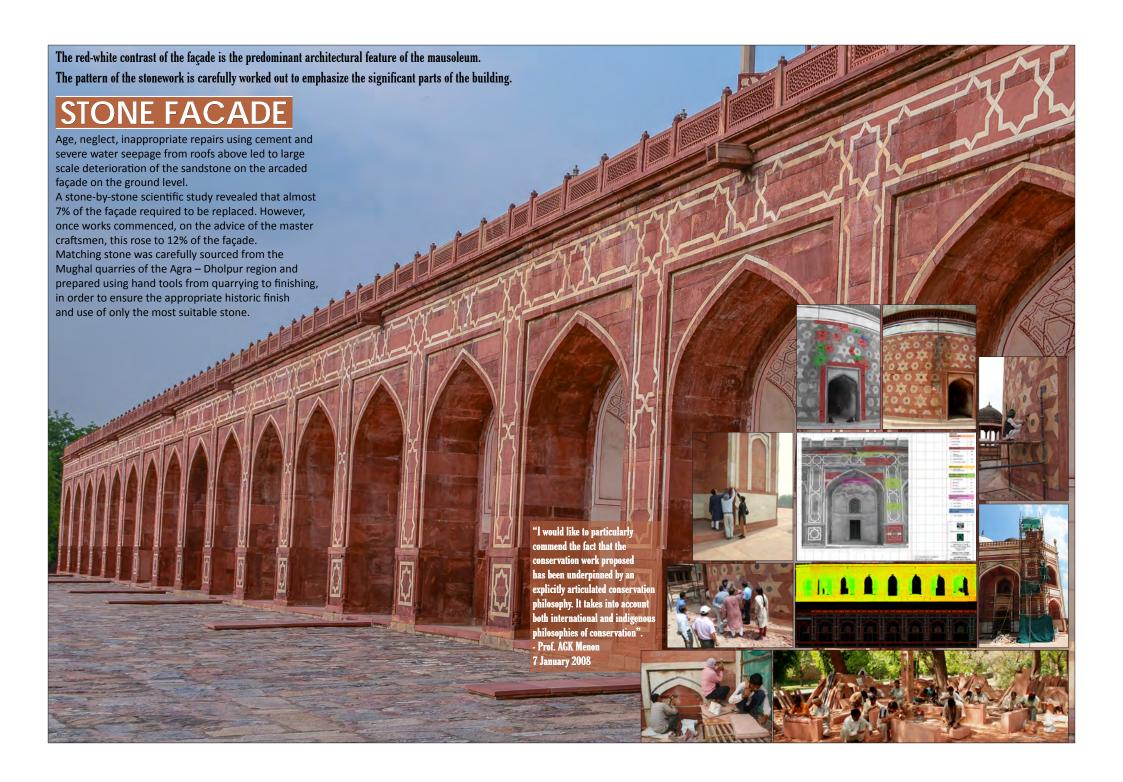


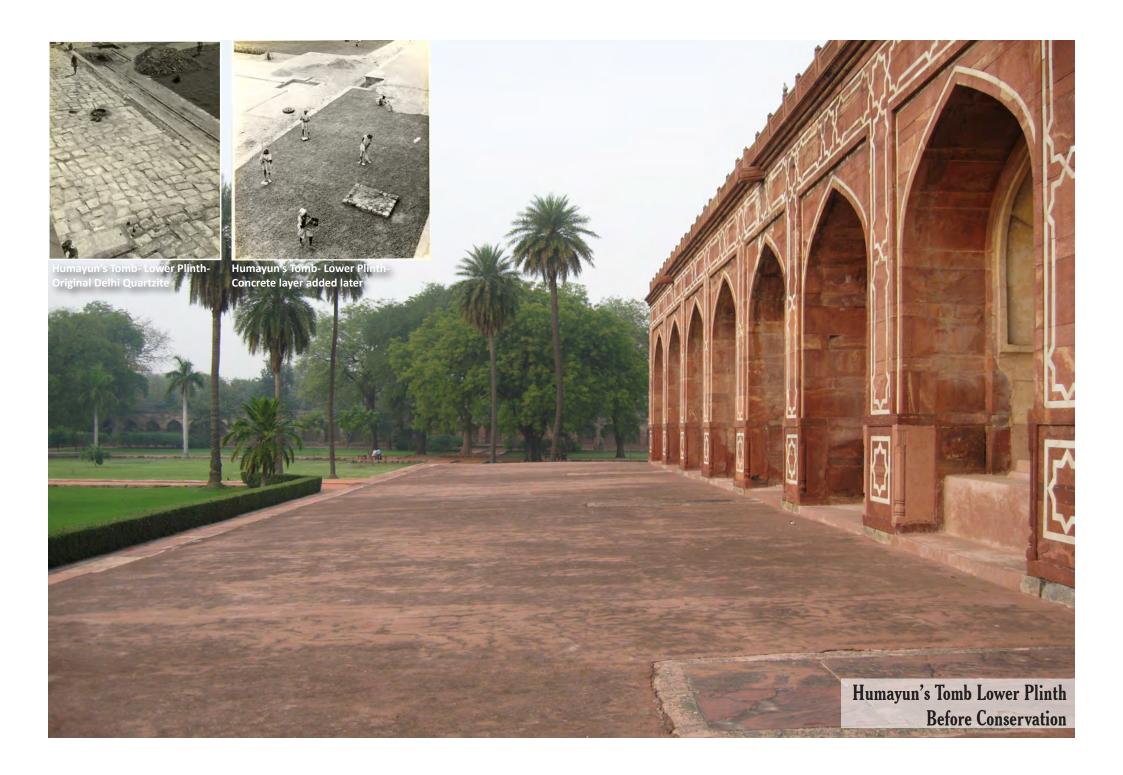


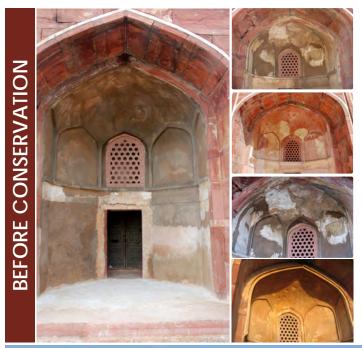


India's first garden restoration project involved:

- 3000 trucks of excess earth manually removed
- 4 kilometres of water channels repaired
- 3.5 kilometres of pathway edging reset
- Over 3 kms of sandstone hand-chiselled
- 2500 fruit, flower bearing and sweet smelling plants favoured by the Mughals planted
- 250,000 square feet of pathways restored
- 30 acre garden completely regrassed
- An exhaustive rainwater harvesting system introduced; this includes 128 ground water recharge pits, 3 wells discovered and desilted, rainy wells provided
- Historic structures in the garden conserved
- Wheelchair access provided
- 40 sandstone benches placed in the garden
- Use of traditional materials, tools and techniques
- High level of documentation with each stone on the pathways and each plant recorded
- Compilation of a photographic record spanning 150 years







Restoring Ornamental Plasterwork

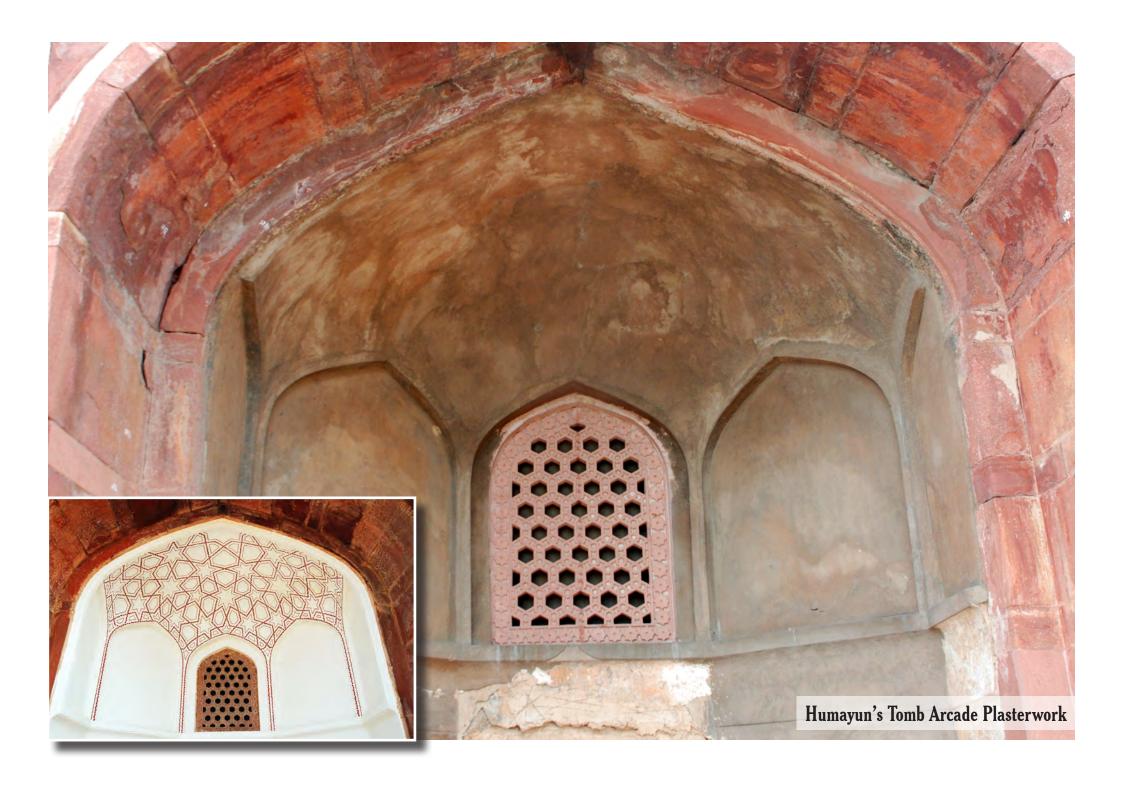
On each façade of the mausoleum are 17 arched openings, and one each of the four corners. Though the facing of this spectacular arcade is clad in sandstone with marble inlay, the 'half-domed' wall surfaces are plastered with ornamental star shaped patterns. Water percolation from the terrace led to most of the original lime mortar disintegrating and then replaced with cement plaster in the 1990's, obliterating decorative plasterwork where traces of this had remained.

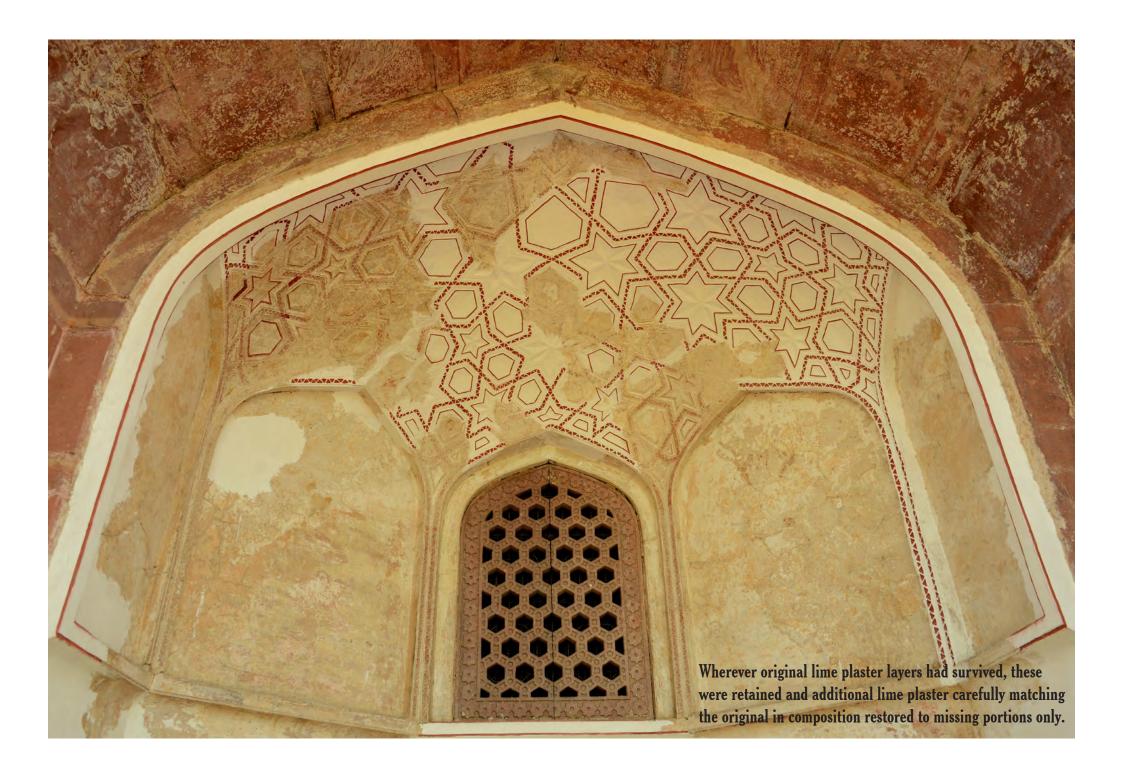
The principal conservation challenge was to restore the ornamental plasterwork of the 'half-domed' surface which comprises less than 1% of the façade yet is a prominent architectural feature.

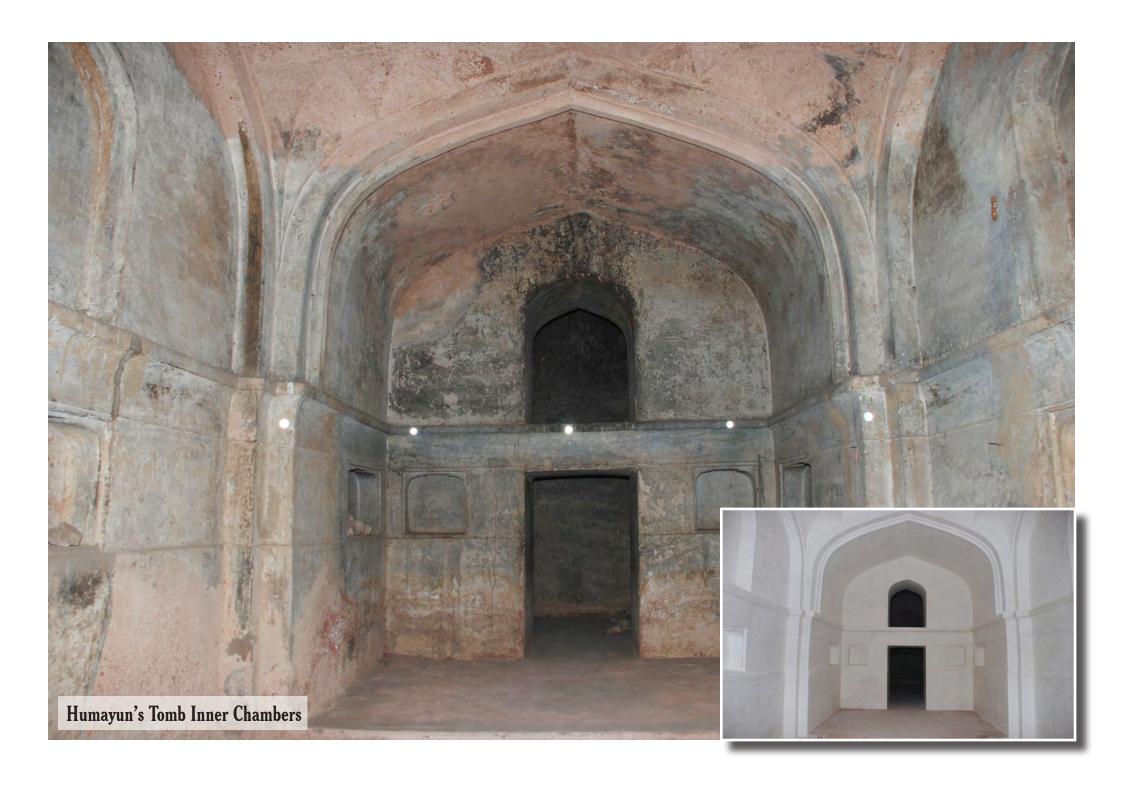
Lime plaster, applied in layers, then incised to bring out the desired patterns transformed the character of the mausoleum, from ruinous to splendour. The final 1 mm thick layer of lime-marble dust plaster not only served as a protective layer for the underlying plaster but the Mughals used it to mimic white marble. The ornamental patterns in incised plasterwork were once again emphasized with red lime plaster obtained by the traditional additive of geru powder.











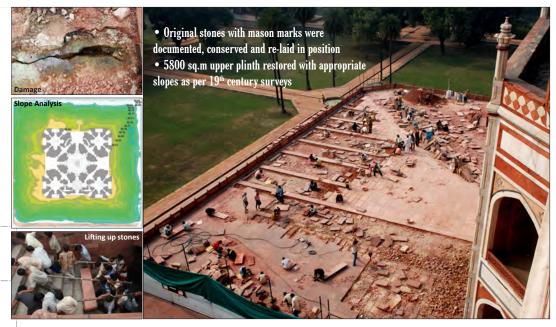
RESTORING MUGHAL PLATFORMS

Overlooking the Char Bagh, a 21 m deep sandstone terrace, surrounds the principle tomb structure. Persistent archival research revealed a plan, prepared in AD 1880, of the sandstone plinth indicating the exact paving pattern prior to all $20^{\rm th}$ century repairs.

Though many of the sandstone slabs still bear the mason marks of the Mughal masons, almost the entire paving had been altered during past repairs which had also altered the slopes leading to significant water seepage to the chambers below.

Almost 70% of the 5800 sq.m. of the sandstone plinth required to be lifted and reset with only stone pieces beyond repair replaced with new stones - matching the original in size – and in the process of restoring adequate slopes, also

Similarly, rising 1.2 m above the garden, the stone paving on the plinth also required to be lifted and reset following the removal of concrete laid over the stone in AD 1956.



UPPER PLINTH



LOWER PLINTH



