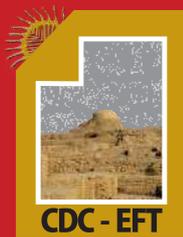


# DARYA KHAN ABRO TOMB

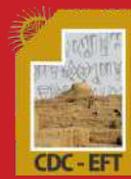
20  
15

## Project Completion Report



Center for Documentation  
and Conservation of the  
Heritage of Sindh

Endowment Fund Trust  
for Preservation of the  
Heritage of Sindh



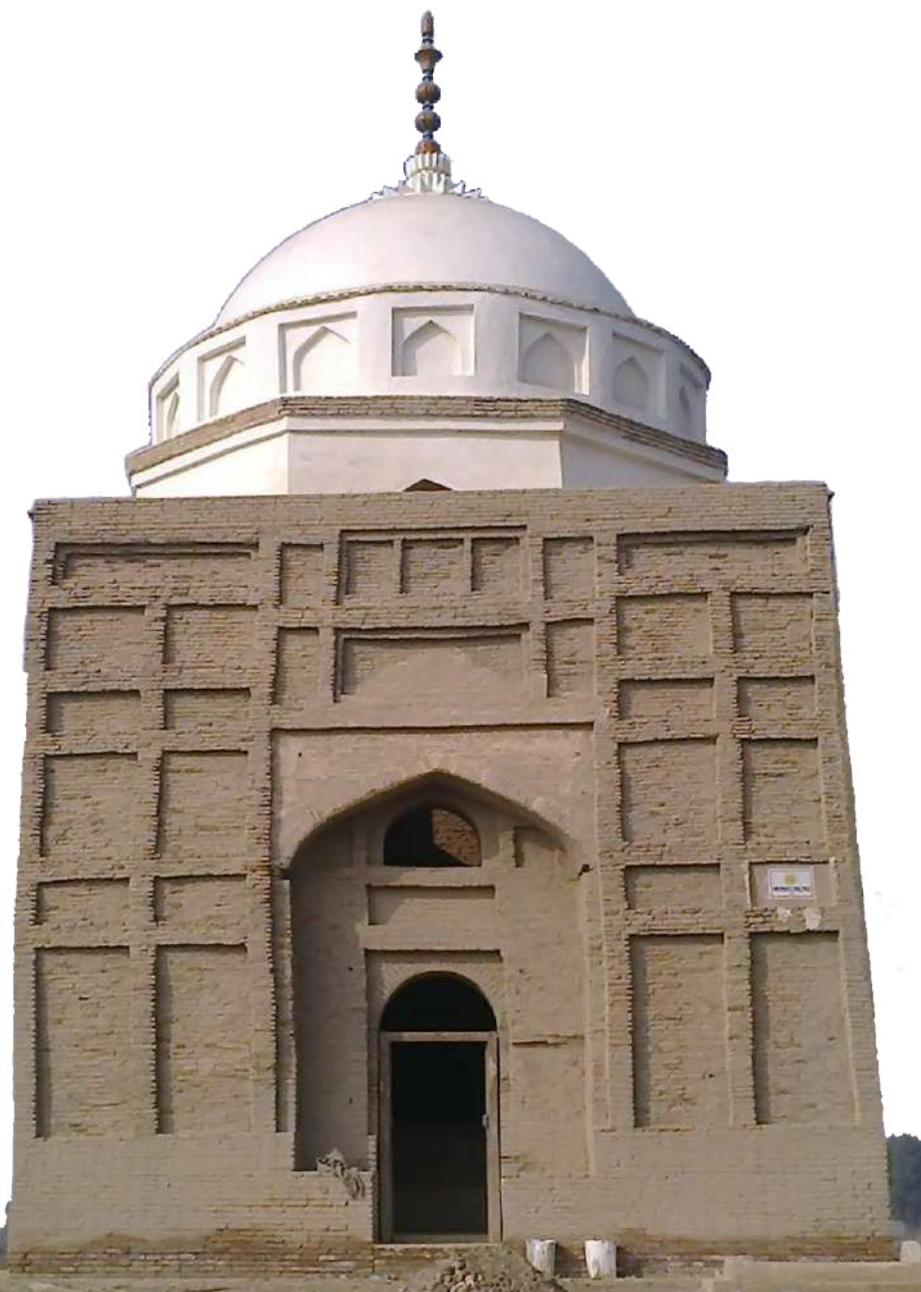
## **Contents**

|   |           |
|---|-----------|
| <b>Introduction</b>                         | <b>1</b>  |
| <b>Location</b>                             | <b>2</b>  |
| <b>Architectural Features</b>               | <b>3</b>  |
| <b>Condition Report</b>                     | <b>4</b>  |
| <b>Material Used in Restoration</b>         | <b>5</b>  |
| <b>Action Plan</b>                          | <b>6</b>  |
| <b>Progress of Work</b>                     | <b>7</b>  |
| <b>Budget Approved &amp; Released</b>       | <b>34</b> |
| <b>Pictorial Views (Before &amp; After)</b> | <b>35</b> |
| <b>Architectural Drawing</b>                | <b>40</b> |

## Introduction

Darya Khan Abro was a brave leader of Abro tribe during the Mughal rules since Kalhora period. Darya Khan Abro belonged to Kamariya Abro Family and was chief of this family. Darya Khan Abro was killed in war which was fought with “Serai Faqiran” during the period of Din Muhammad Kalhoro. This important monument of kalhora period is situated in Gherelo, taluka Baqrani, District larkano. The tomb is not protected under heritage act and its condition is very deplorable and needs attention, the length and width of the burial place of Darya Khan Abro (tomb) is 28 x28 feet. It is about 40 feet high, it is built with burnt bricks with mud mortar. Due to negligence and weathering effects the building has developed cracks and fissures in the structure. Its foundation is eroded. Mud coating and lime plaster from inner and outer side of wall is also almost completely worn out. Cracks are developed in arches of the Tomb because of rain. The dome of the structure is also collapsed.

To save this historical monument, EFT had started restoration work on this Tomb from last week of August 2014, and completed in December 2015. In this time period, the main features of this historical place have been restored.



## Location

The Site of Darya Khan Abro Tomb is situated near Gareello, Taluka Baqrani, District Larkana

### **Coordinates:**

North 27° 25' 58.15"

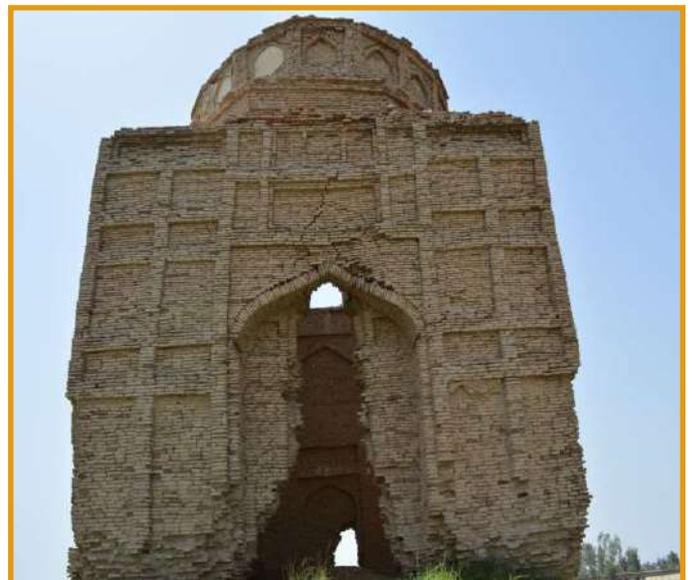
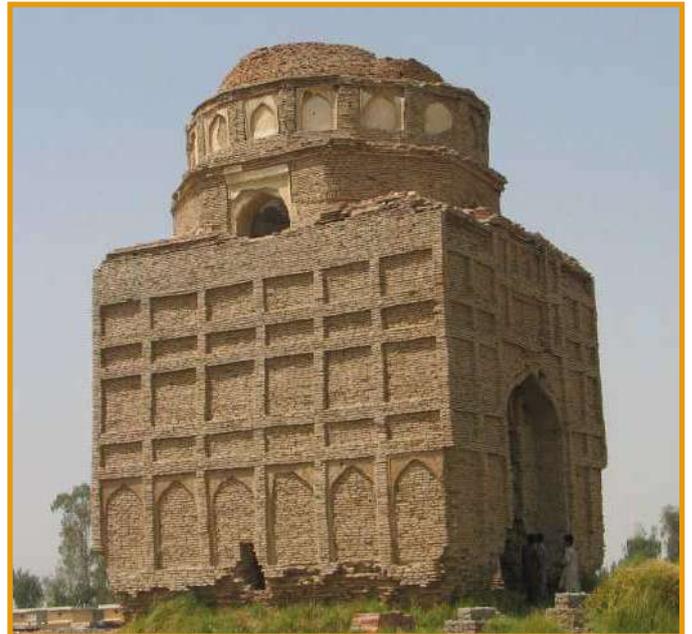
East 68° 04' 53.64"



Satellite View

## Architectural Features

- ◆ Total dimension of Tomb structure is 28'-0" x 28'-0" and covered area is 784 sqfts.
- ◆ Tomb is constructed with bricks, mud, chirolu and lime.
- ◆ There is only one opening in the tomb.
- ◆ Tudor arch is built in central main entrance door of the tomb.
- ◆ Tomb is decorated with Tudor arch on outside and inside walls and octagonal drums.
- ◆ Two drums are built on the tomb in octagonal shape. Lower drum is big and upper is small in size.
- ◆ There are four Tudor arch style ventilators built in lower octagonal drum.
- ◆ Vaulted arches designed in the corners of the drum.
- ◆ In upper drum also has decoration of Tudor arches but there is no opening in upper drum.
- ◆ Dome is totally demolished.
- ◆ New dome is designed in the Mughal/Kalhora style, resemblance to Humayun's Tomb dome built in Dehli 15<sup>th</sup> century A.D.
- ◆ The outside walls of the tomb are decorated with Tudor Arches front wall has big opening used as door designed in Tudor arch.
- ◆ The other three walls left, right and back are decorated with Tudor dead arches.



## Condition Report

The tomb is not protected under heritage act and it's condition is very deplorable and needs immediate attention, The length and width of the burial place of Darya Khan Abro (tomb) is 28 x28 feet. It is about 40 feet high, It is built with burnt bricks with mud mortar.

- Due to negligence and weathering effects the building has developed cracks and fissures in the structure.
- Its foundation is eroded up to 6 feet.
- Mud coating and lime plaster from inner and outer side of wall is also almost completely worn out.
- Cracks are developed in arches of the Tomb because of rain.
- The dome of the structure is also collapsed.



### Material Used in Restoration

- ◆ Bricks (10.5" x 5" x 2") & (11" x 5" x 2.5")
- ◆ Lime
- ◆ Chirol (Gypsum)
- ◆ Mud
- ◆ Jute



Constructions Material dumped at site.

## Action Plan

- ✓ Construction of Temporary Site Office .
- ✓ Purchasing and Supply of Constructions Material & Equipments.
- ✓ Construction of Water Reservoir Tank.
- ✓ Construction of Lime Mixing Tank.
- ✓ Repair of Major Cracks of Structure and Under Pinning (Inner and outer under pinning).
- ✓ Repair of Octagonal Drum & Design (Architectural Features).
- ✓ Restoration of Collapse Dome.
- ✓ Restoration of Finial on Dome.
- ✓ Fixation of New Door.



## Progress of Work

The restoration work has been started in the month of August 2014, and completed in December 2015, the progress according to month wise described below.

### August 2014 Progress

- ◆ Cross Sections and cost estimates have been submitted to Head Office.
- ◆ 5000 Bricks for Darya Khan Abro are ready, according to the required Standards and Size.
- ◆ Restoration work of Darya Khan Abro Tomb will be commenced in the second week of September 2014.



Sample of Bricks for Darya Khan Abro Tomb



## Progress of Work

### September 2014 Progress

- ◇ Cross Sections and cost estimates have been submitted to Head Office.
- ◇ 5000 Bricks for Darya Khan Abro are ready, according to the required Standards and Size.
- ◇ Restoration work of Darya Khan Abro Tomb will be commenced after Eid Holidays.



**Bricks are Ready for the Site**



## Progress of Work

### October 2014 Progress

- ◆ Cross Sections and cost estimates have been submitted to Head Office.
- ◆ 7500 Bricks for Darya Khan Abro are shifted to the site
- ◆ Tanks at Darya Khan Abro for Water and Lime are constructed.
- ◆ Bricks, Sand and Mud are dumped at site.
- ◆ Experienced Masons of Mohen-jo-Daro are hired for under pinning.
- ◆ Under pinning on the Southern and Western outer walls of Darya Khan Abro Tomb is in under progress.
- ◆ Under pinning of Northern outer wall of tomb is completed.



Bricks, Sand and Mud are dumped at Darya Khan Abro Tomb



Excavation work around at Darya Khan Abro Tomb

## Progress of Work

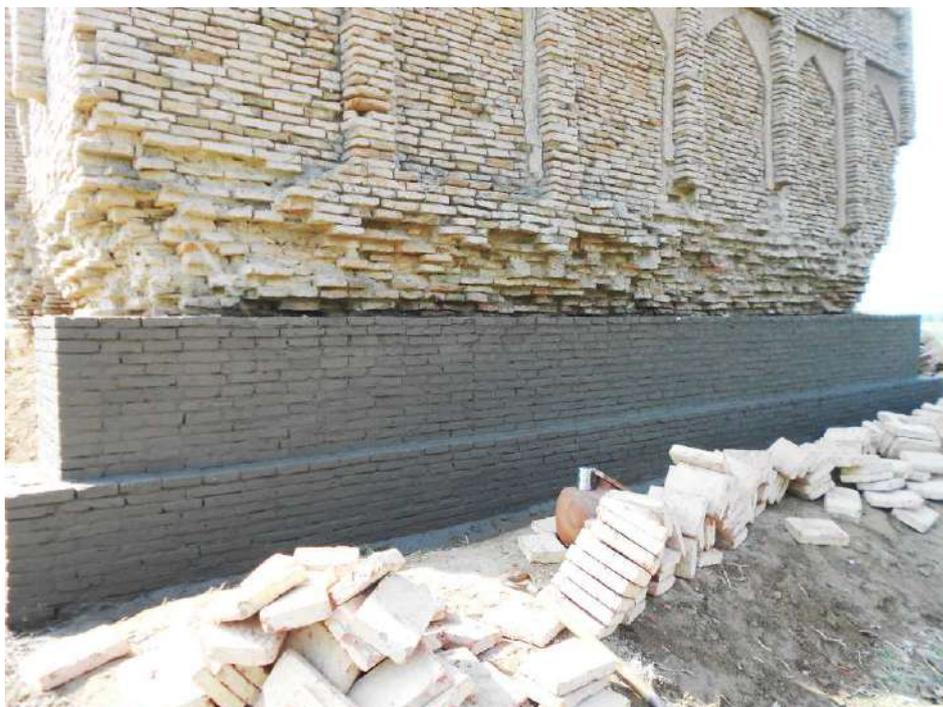
### October 2014 Progress



To see the depth of erosion in foundation trenches are excavated around the structure



Under process restoration of foundation of Darya Khan Abro Tomb



Restoration work is under process at Darya Khan Abro Tomb

## Progress of Work

### October 2014 Progress



Water and Lime Tanks are Constructed at Site

## Progress of Work

### November - December 2014 Progress

- ◆ Cross Sections and cost estimates have been submitted to Head Office.
- ◆ More than 10000 Bricks for Darya Khan Abro are shifted to the site
- ◆ Tanks at Darya Khan Abro for Water and Lime are constructed.
- ◆ Bricks, Sand and Mud are dumped at site.
- ◆ Experienced Masons of Mohen-jo-Daro are hired for under pinning.
- ◆ Under pinning on the Southern and Western outer & inner walls of Darya Khan Abro Tomb are completed.
- ◆ Under pinning of Northern outer inner wall of tomb are completed.
- ◆ Inner and outer under pinning on the eastern and western wall are completed.
- ◆ Two graves are exposed while dressing the inner floor of the tomb.
- ◆ Preparation to restore the arch & missing ventilators of main entrance of the tomb and also to re-establish the crakes on the top of main entrance.



## Progress of Work

**November - December 2014 Progress**



Preparation to restore the missing arch and ventilator on the main entrance of Darya Khan Abro Tomb



Two graves are recovered during the dressing of floor of Darya Khan Abro Tomb

## Progress of Work

### November - December 2014 Progress



Under pinning is in progress



Under pinning on the inner side of northern wall

## Progress of Work

### November - December 2014 Progress



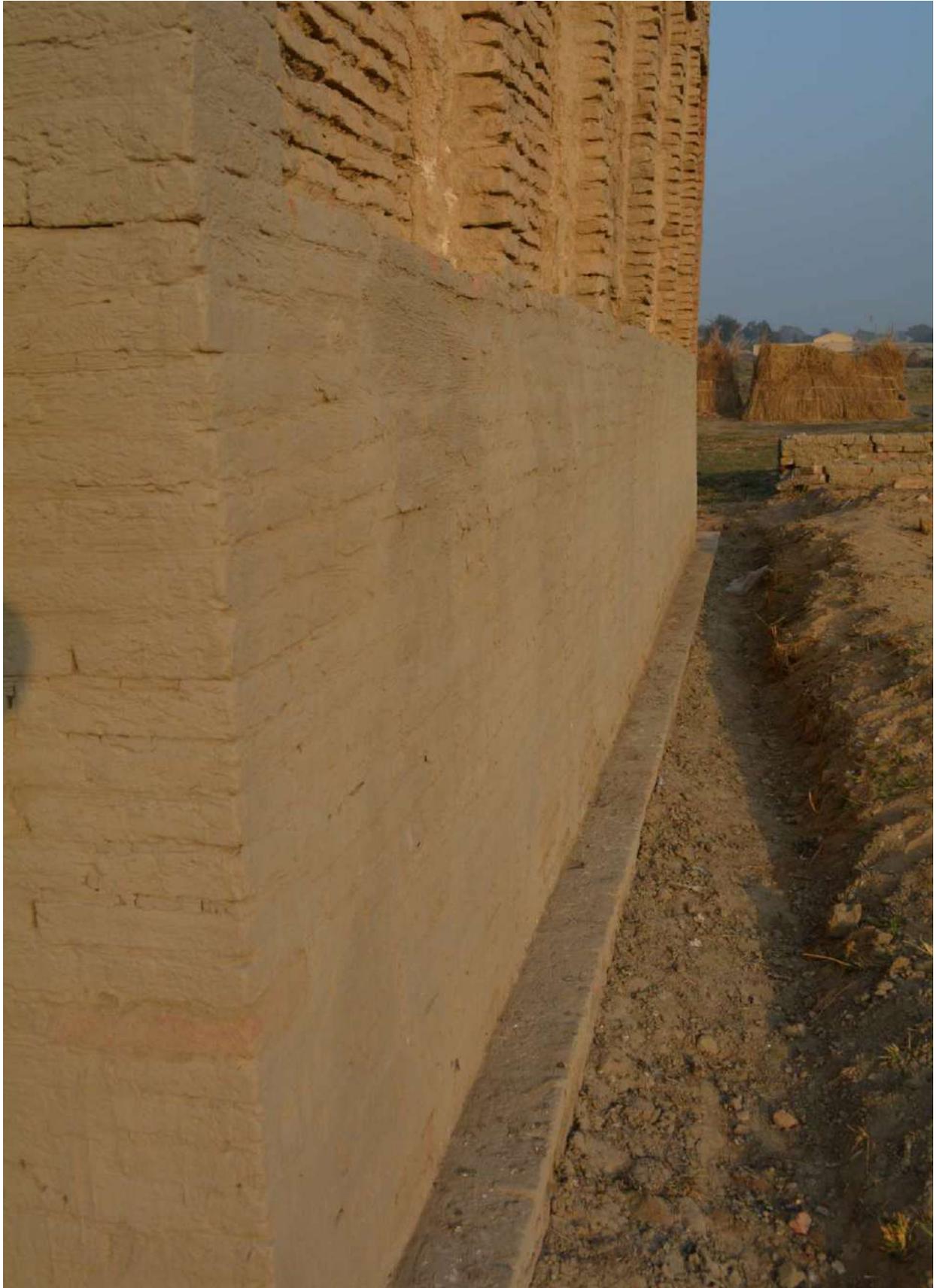
Under pinning is in progress on the facade of Darya Khan Abro Tomb



Under pinning of the Darya Khan Abro Tomb is completed

## Progress of Work

### November - December 2014 Progress



Restored western wall of Darya Khan Abro Tomb

## Progress of Work

### January - February 2014 Progress

- ◇ Cross Sections and cost estimates have been submitted to Head Office.
- ◇ More than 25000 Bricks for Darya Khan Abro are shifted to the site
- ◇ Tanks at Darya Khan Abro for Water and Lime are constructed.
- ◇ Bricks, Sand and Mud are dumped at site.
- ◇ Experienced Masons of Mohen-jo-Daro are hired for restoration.
- ◇ Under pinning on the Southern and Western outer & inner walls of Darya Khan Abro Tomb are ended.
- ◇ Under pinning of Northern outer inner wall of tomb are completed.
- ◇ Inner and outer pinning on the eastern and western wall are finished.
- ◇ Two graves are exposed while dressing the inner floor of the tomb.
- ◇ The small arch & missing ventilators of main entrance of the tomb are maintained.
- ◇ Pointing work of all the walls of structure are completed.
- ◇ Pointing of octagonal drum of the structure are completed.
- ◇ Cornice above the octagonal drum is restored.
- ◇ Ruined bricks in the walls of the structure is also replaced.



## Progress of Work

January - February 2014 Progress



Mud plastered on western side of the tomb

## Progress of Work

January - February 2014 Progress



Restoration of Octagonal Drum



Restored conice of Octagonal Drum

## Progress of Work

### March - April 2014 Progress

- ◇ Tanks at Darya Khan Abro for Water and Lime are constructed.
- ◇ Bricks, Sand and Mud are dumped at site.
- ◇ Experienced Masons of Mohen-jo-Daro are hired for restoration.
- ◇ Under pinning on the Southern and Western outer & inner walls of Darya Khan Abro Tomb are totally ended.
- ◇ Under pinning of Northern outer inner wall of tomb are completed.
- ◇ Inner and outer pinning on the eastern and western wall are entirely finished.
- ◇ Two graves are exposed while dressing the inner floor of the tomb.
- ◇ The small arch & missing ventilators of main entrance of the tomb are maintained.
- ◇ Pointing work of all the walls of structure are completed.
- ◇ Pointing of octagonal drum of the structure are completed.
- ◇ Cornice above the octagonal drum is restored.
- ◇ Ruined bricks in the walls of the structure is also replaced.
- ◇ Chiroli is transported from Thatta to site.
- ◇ Planks/logs are inserted in the cracks of main arch of the facade.
- ◇ Main arch of facade is fully restored.
- ◇ Restoration of octagonal drum and dome is in progress.
- ◇ Dome experts are hired from Badah and Shikarpur for the restoration of collapsed dome of Darya Khan.
- ◇ Collapsed dome up to 5 feet from centre is restored with the Chiroli and baked bricks of same size.
- ◇ Sign Board has been placed by Endowment Fund Trust near the site.



## Progress of Work

### March - April 2014 Progress



Restoration of Collapsed Dome



Chiroli is Dumped at Site

## Progress of Work

**March - April 2014 Progress**



Logs / Planks are inserted in the cracks of Main Arch.

## Progress of Work

**March - April 2014 Progress**



Restoration of Dome in Progress

**Progress of Work**

**March - April 2014 Progress**



Signboard is placed at site

## Progress of Work

### May - June - July 2014 Progress

- ◆ Tanks at Darya Khan Abro for Water and Lime are constructed.
- ◆ Bricks, Sand and Mud are dumped at site.
- ◆ Ruined bricks in the walls of the structure is also replaced.
- ◆ Chiroli is transported from Thatta to site.
- ◆ Planks/logs are inserted in the cracks of main arch of the facade.
- ◆ Experienced Masons of Mohen-jo-Daro are hired for restoration.
- ◆ Under pinning on the Southern and Western outer & inner walls of Darya Khan Abro Tomb are ended.
- ◆ Under pinning of Northern outer inner wall of tomb are completed.
- ◆ Inner and outer pinning on the eastern and western wall are entirely finished.
- ◆ Two graves are exposed while dressing the inner floor of the tomb.
- ◆ The small arch & missing ventilators of main entrance of the tomb are maintained.
- ◆ Pointing work of all the walls of structure are completed.
- ◆ Pointing of octagonal drum of the structure are completed.
- ◆ Cornice above the octagonal drum is restored.
- ◆ Main arch of facade is fully restored.
- ◆ Restoration of octagonal drum is finalized.
- ◆ Dome experts are hired from Badah and Shikarpur for the restoration of collapsed dome of Darya Khan.
- ◆ Sign Board has been placed by Endowment Fund Trust near the site.
- ◆ Collapsed dome is restored with the Chiroli and baked bricks of same size.
- ◆ One layer of Chiroli on the top of dome is plastered.
- ◆ One coat of lime plaster is completed on the top of dome.
- ◆ One coat of Chiroli in the inner side of dome is also completed.



## Progress of Work

### May - June - July 2014 Progress



One coat of Chiroli and one coat of lime on the top of the dome



Restored structure of Darya Khan Abro

## Progress of Work

### May - June - July 2014 Progress



Hand Pump, Water and lime tanks at Darya Khan Abro



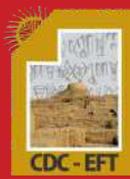
Work in progress on the inner side of the dome

## Progress of Work

### May - June - July 2014 Progress



Marble plate of Endowment Fund Trust is fixed on the facade of the tomb



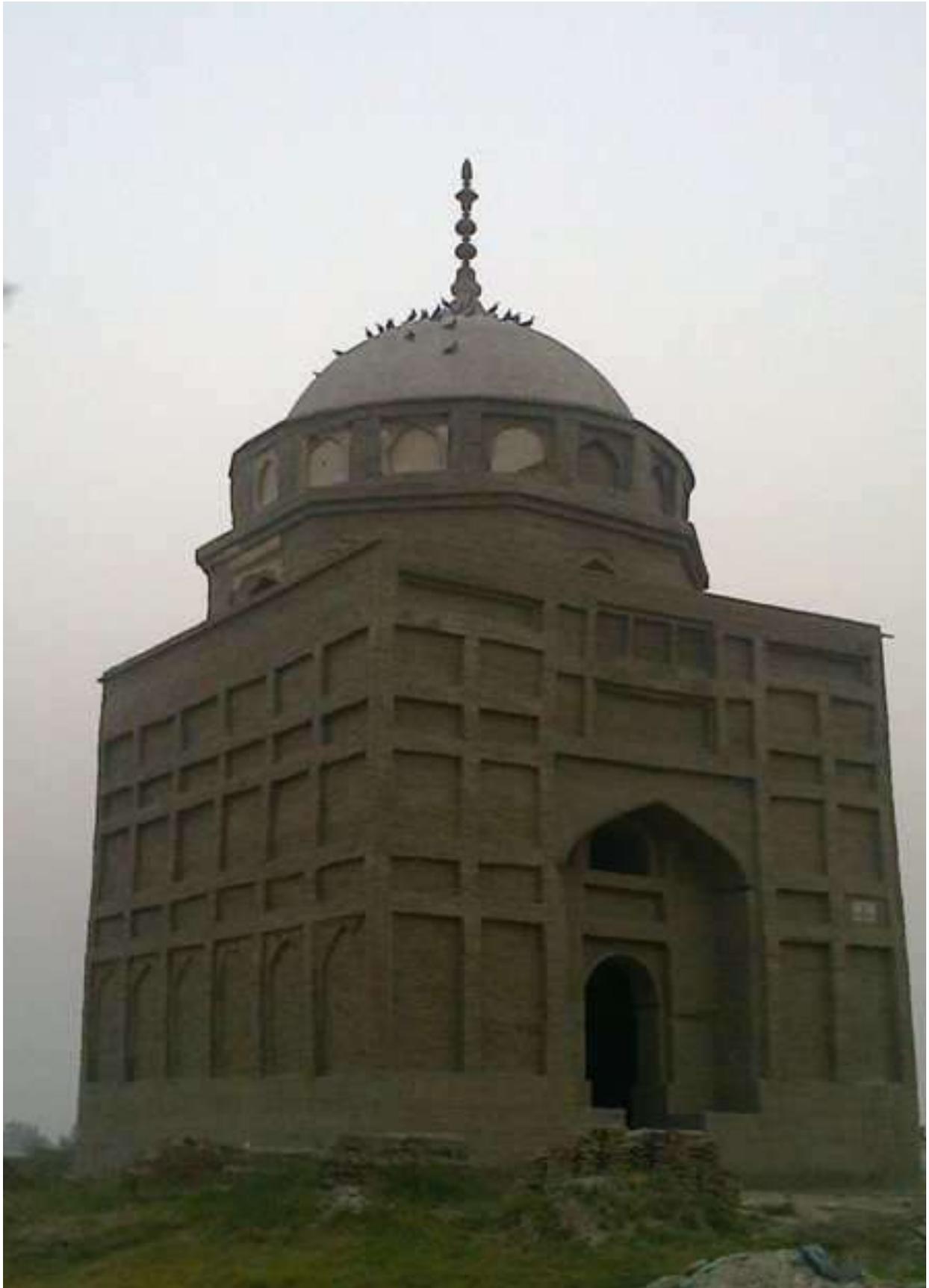
## Progress of Work

### August - September - October 2014 Progress

- ◆ Tanks at Darya Khan Abro for Water and Lime are constructed.
- ◆ Bricks, Sand and Mud are dumped at site.
- ◆ Ruined bricks in the walls of the structure is also replaced.
- ◆ Chiroli is transported from Thatta to site.
- ◆ Planks/logs are inserted in the cracks of main arch of the facade.
- ◆ Experienced Masons of Mohen-jo-Daro are hired for restoration.
- ◆ Under pinning on the Southern and Western outer & inner walls of Darya Khan Abro Tomb are ended.
- ◆ Under pinning of Northern outer inner wall of tomb are completed.
- ◆ Inner and outer pinning on the eastern and western wall are entirely finished.
- ◆ Two graves are exposed while dressing the inner floor of the tomb.
- ◆ The small arch & missing ventilators of main entrance of the tomb are maintained.
- ◆ Pointing work of all the walls of structure are completed.
- ◆ Pointing of octagonal drum of the structure are completed.
- ◆ Cornice above the octagonal drum is restored.
- ◆ Main arch of facade is fully restored.
- ◆ Restoration of octagonal drum is finalized.
- ◆ Dome experts are hired from Badah and Shikarpur for the restoration of collapsed dome of Darya Khan.
- ◆ Sign Board has been placed by Endowment Fund Trust near the site.
- ◆ Collapsed dome is restored with the Chiroli and baked bricks of same size.
- ◆ One layer of Chiroli on the top of dome is plastered.
- ◆ One coat of lime plaster is completed on the top of dome.
- ◆ One coat of Chiroli in the inner side of dome is also completed.
- ◆ Final lime plaster and soap stone finishing is remained to the outer top of newly constructed dome.
- ◆ Final coat of lime and soap stone finishing is remained in the inner side of dome.

## Progress of Work

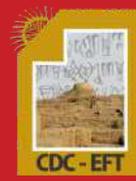
**August - September - October 2014 Progress**



## Progress of Work

August - September - October 2014 Progress





## Progress of Work

### November - December 2014 Progress

- ◇ Tanks at Darya Khan Abro for Water and Lime are constructed.
- ◇ Bricks, Sand and Mud are dumped at site.
- ◇ Ruined bricks in the walls of the structure is also replaced.
- ◇ Chiroli is transported from Thatta to site.
- ◇ Planks/logs are inserted in the cracks of main arch of the facade.
- ◇ Experienced Masons of Mohen-jo-Daro are hired for restoration.
- ◇ Under pinning on the Southern and Western outer & inner walls of Darya Khan Abro Tomb are ended.
- ◇ Under pinning of Northern outer inner wall of tomb are completed.
- ◇ Inner and outer pinning on the eastern and western wall are entirely finished.
- ◇ Two graves are exposed while dressing the inner floor of the tomb.
- ◇ The small arch & missing ventilators of main entrance of the tomb are maintained.
- ◇ Pointing of octagonal drum of the structure are completed.
- ◇ Cornice above the octagonal drum is restored.
- ◇ Main arch of facade is fully restored.
- ◇ Restoration of octagonal drum is finalized.
- ◇ Dome experts are hired from Badah and Shikarpur for the restoration of collapsed dome of Darya Khan.
- ◇ Sign Board has been placed by Endowment Fund Trust near the site.
- ◇ Collapsed dome is restored with the Chiroli and baked bricks of same size.
- ◇ One layer of Chiroli on the top of dome is plastered.
- ◇ One coat of lime plaster is completed on the top of dome.
- ◇ One coat of Chiroli in the inner side of dome is also completed.
- ◇ Final lime plaster and soap stone finishing is completed to the outer side of newly constructed dome.
- ◇ Final coat of lime and soap stone finishing is completed in the inner side of dome.
- ◇ Pinnacle (Phull) at the top of dome is completed.
- ◇ Lime plaster and soap stone finishing are finalize

## Progress of Work

**November - December 2014 Progress**



**Plastering of outer arches of Drum are in progress at Darya Khan Abro Tomb**



**The inner arches of drum of Darya Khan Tomb are plastered**



**The top of octagonal drum of Darya Khan Abro Tomb**

**Budget Approved & Released**

**Total Expenditures**

**2.38 Million**



**Pictorial Views (Before & After)**

**BEFORE**



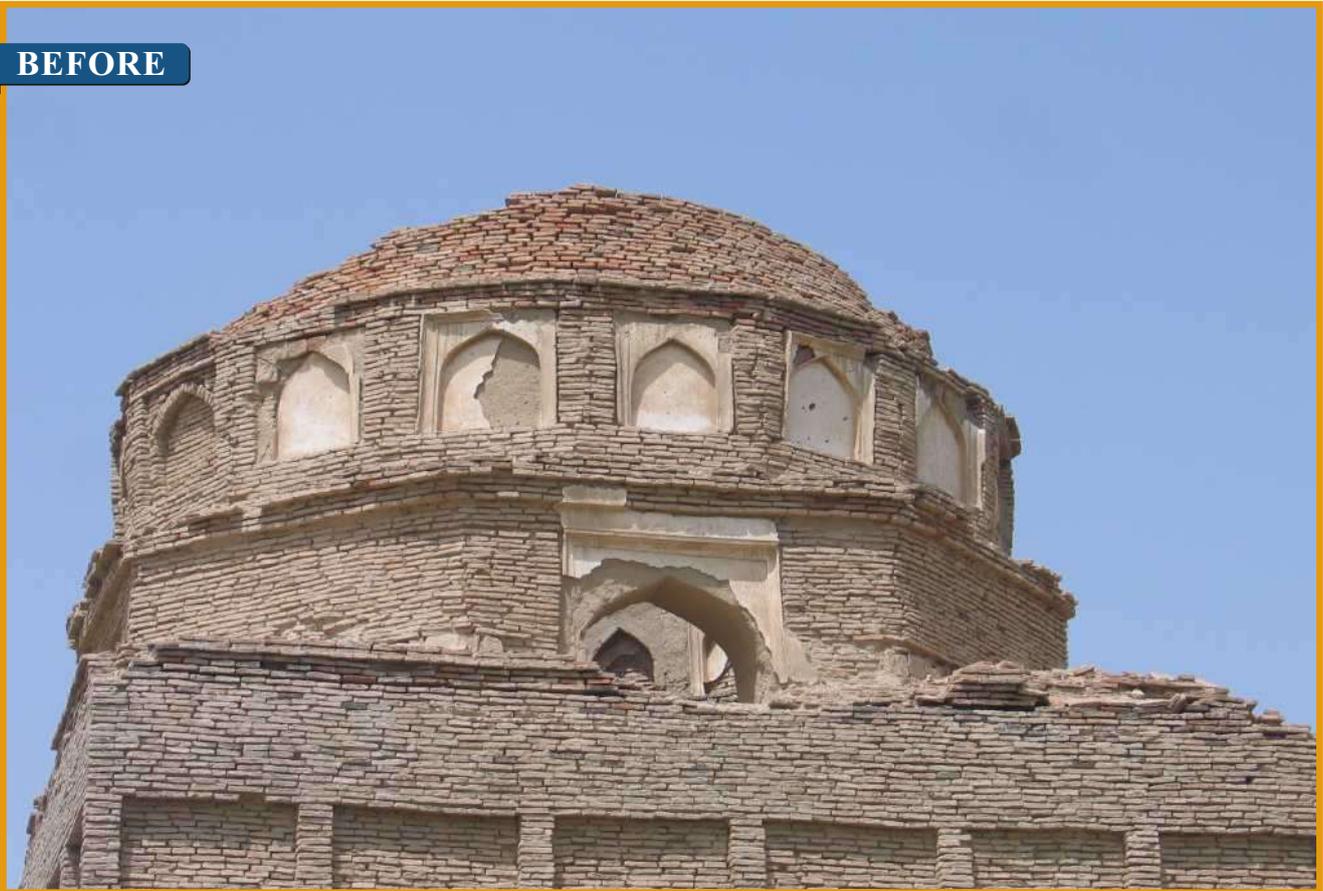
**AFTER**



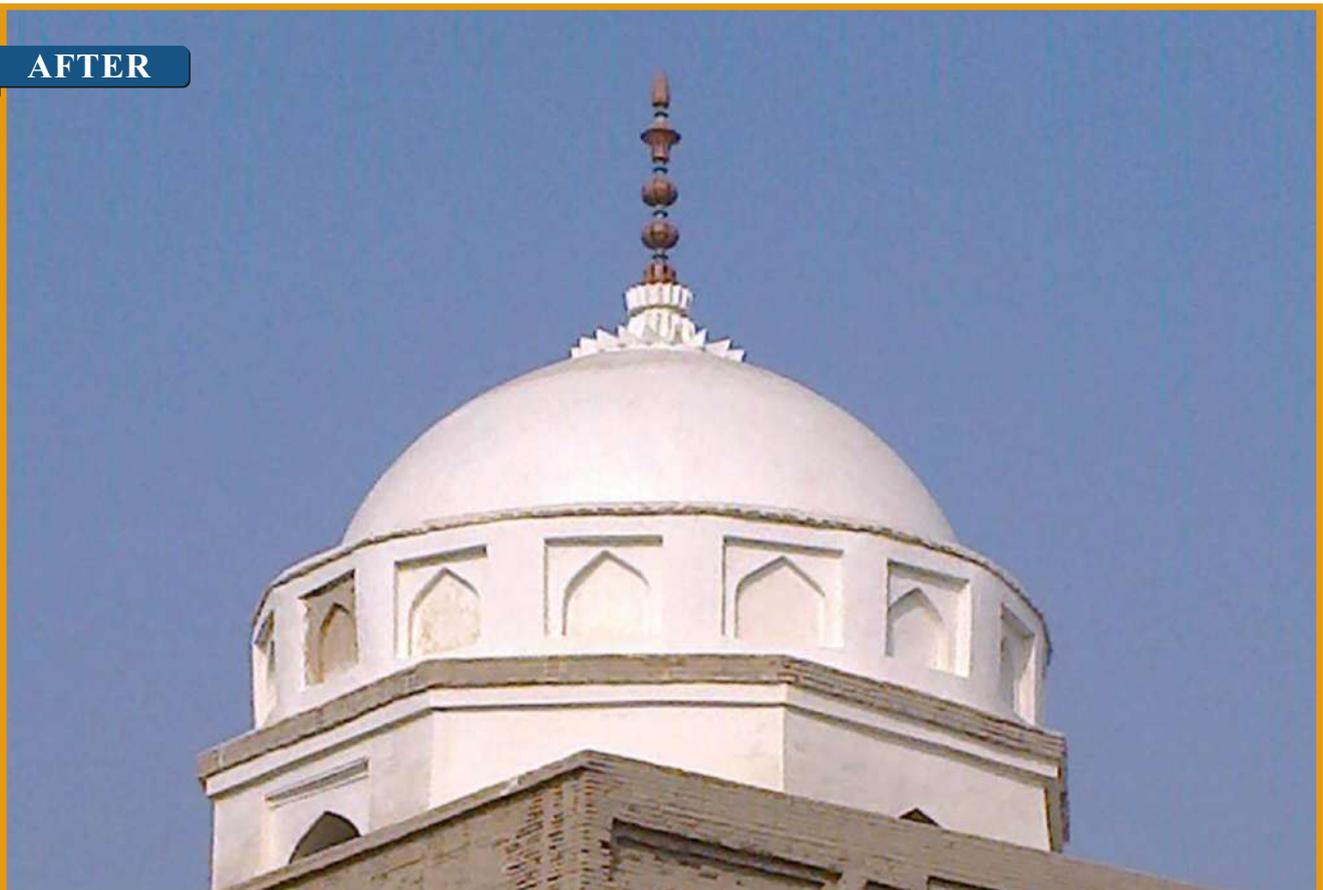
**Facade (Eastern side) View of Tomb**

**Pictorial Views (Before & After)**

**BEFORE**



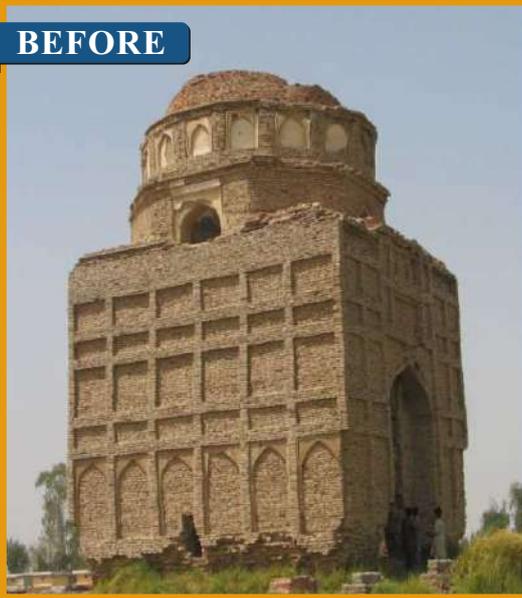
**AFTER**



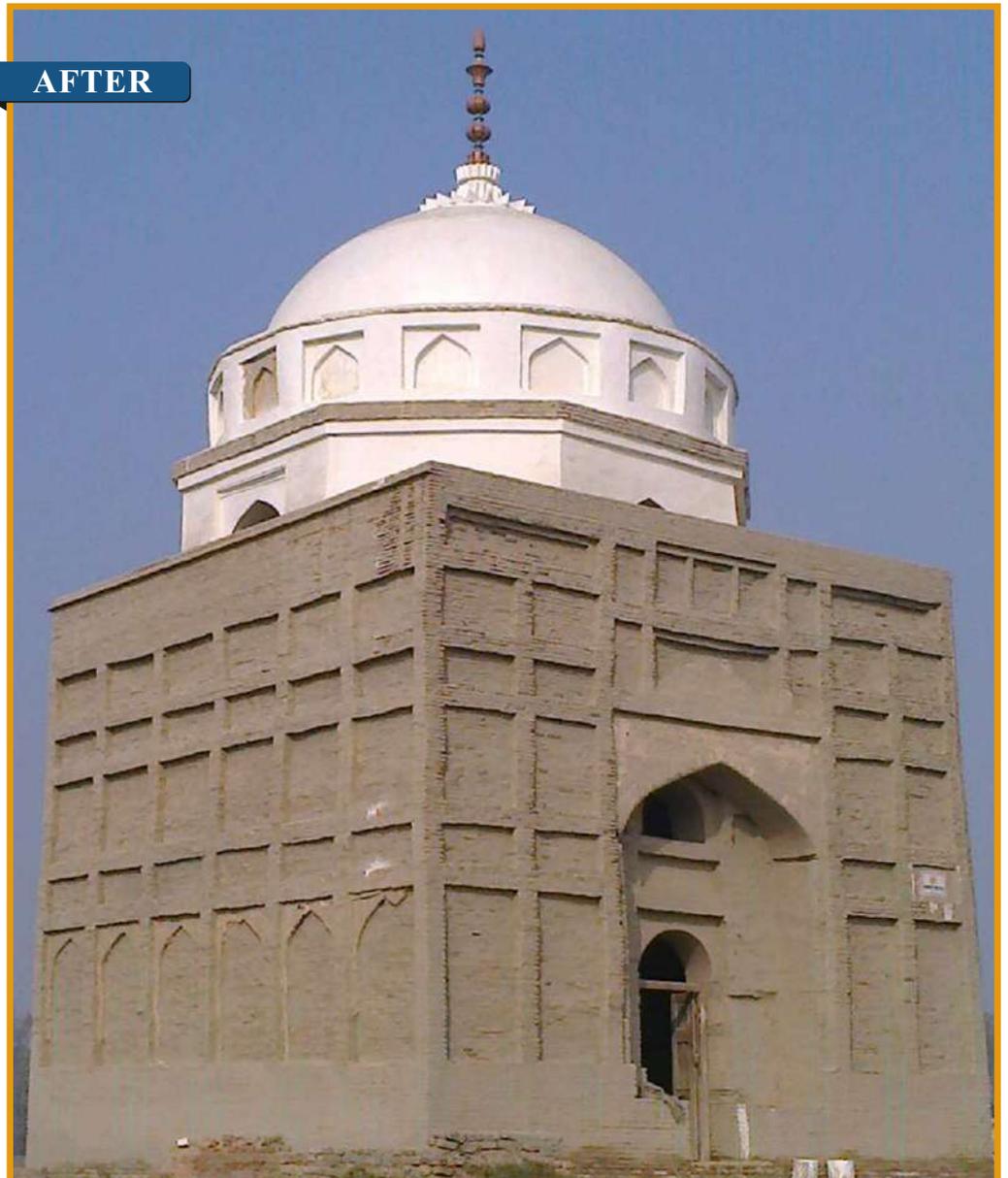
**View of Octagonal Drum & Dome**

**Pictorial Views (Before & After)**

**BEFORE**



**AFTER**



**Pictorial Views (Before & After)**

**BEFORE**



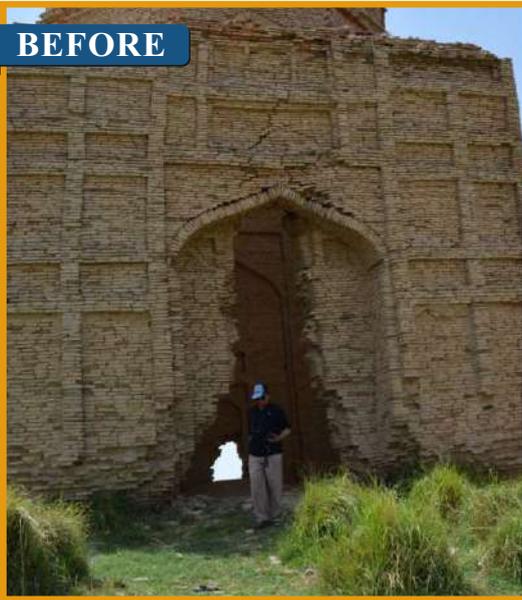
**AFTER**



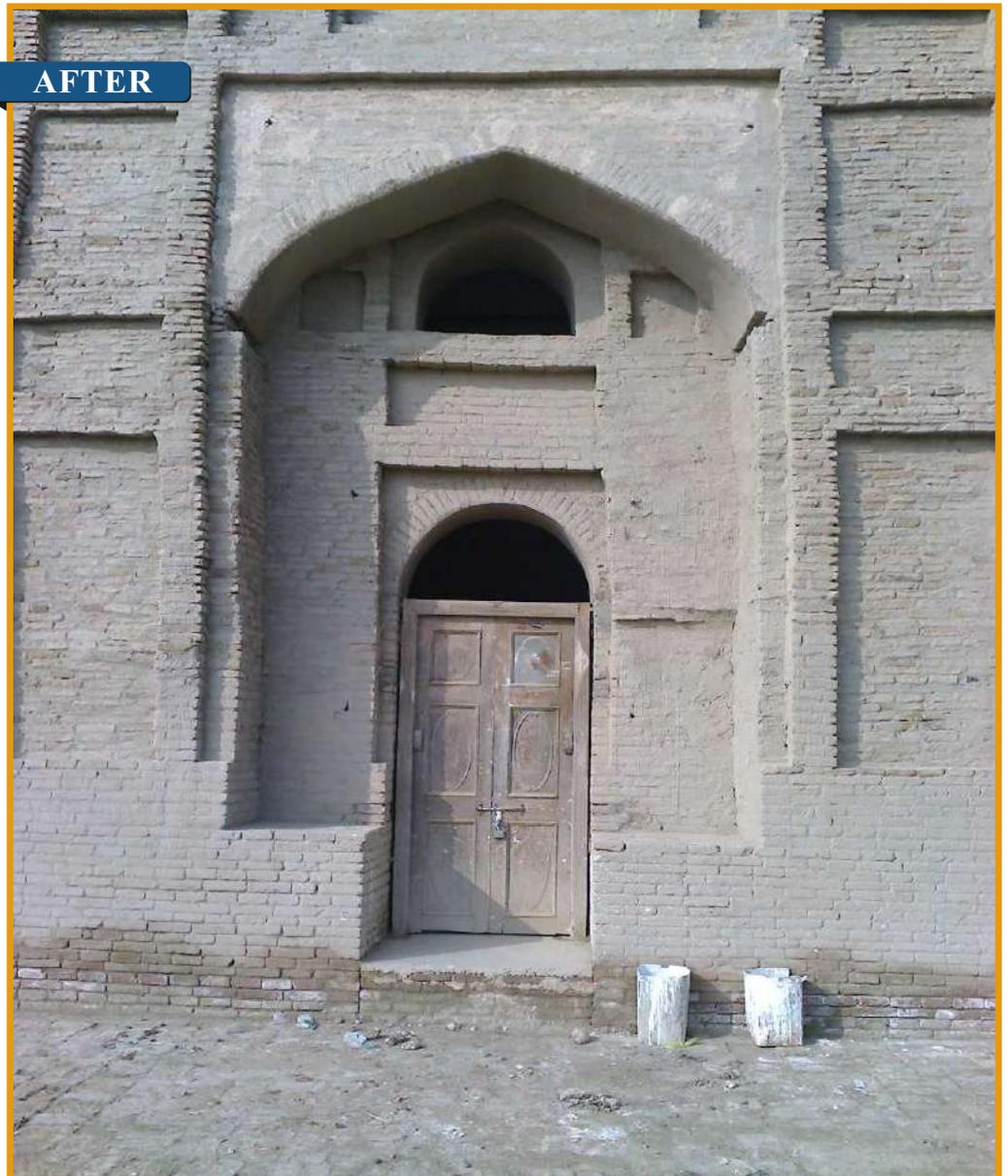
**Two Graves are recovered inside the Tomb**

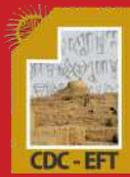
**Pictorial Views (Before & After)**

**BEFORE**

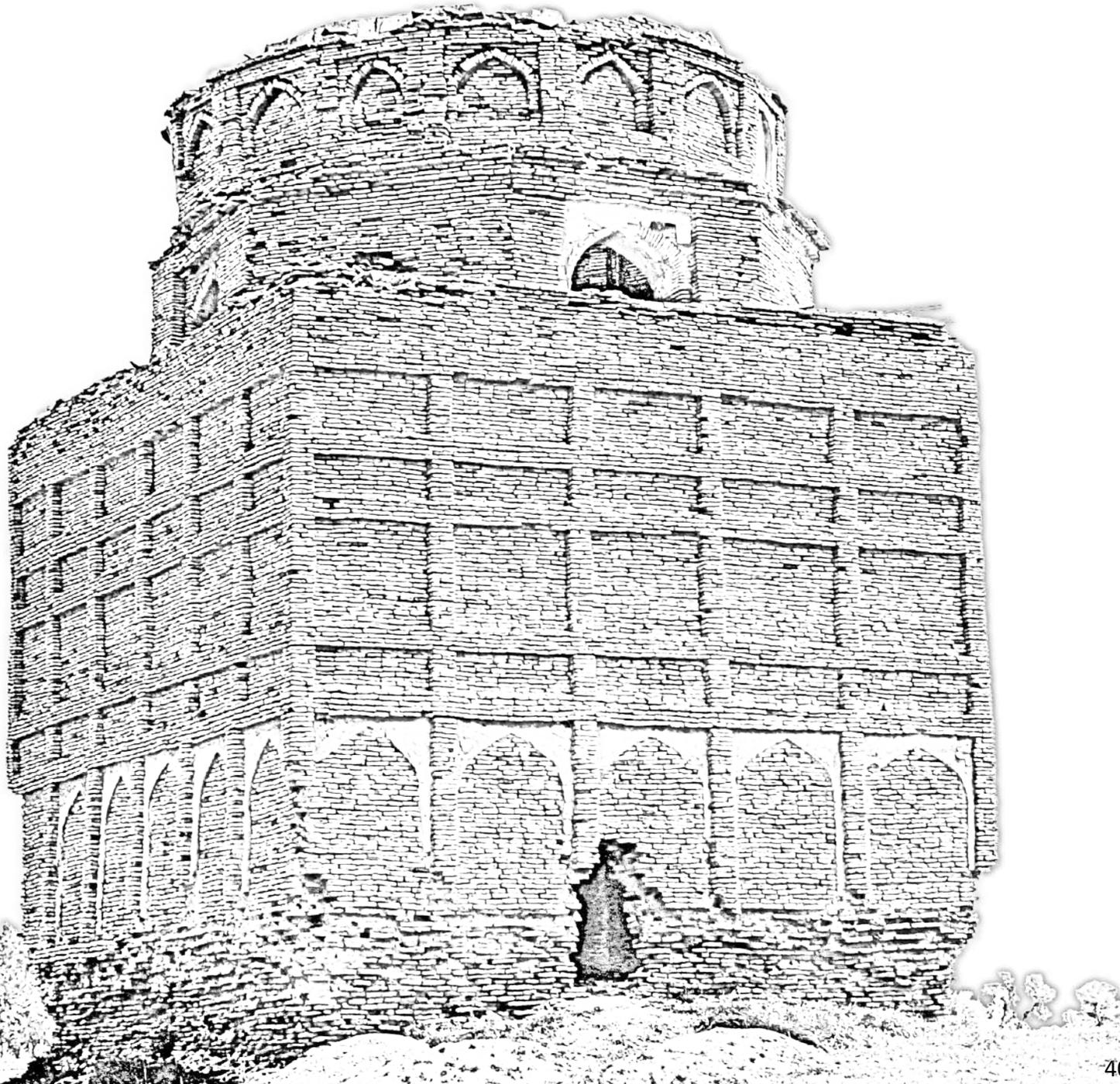


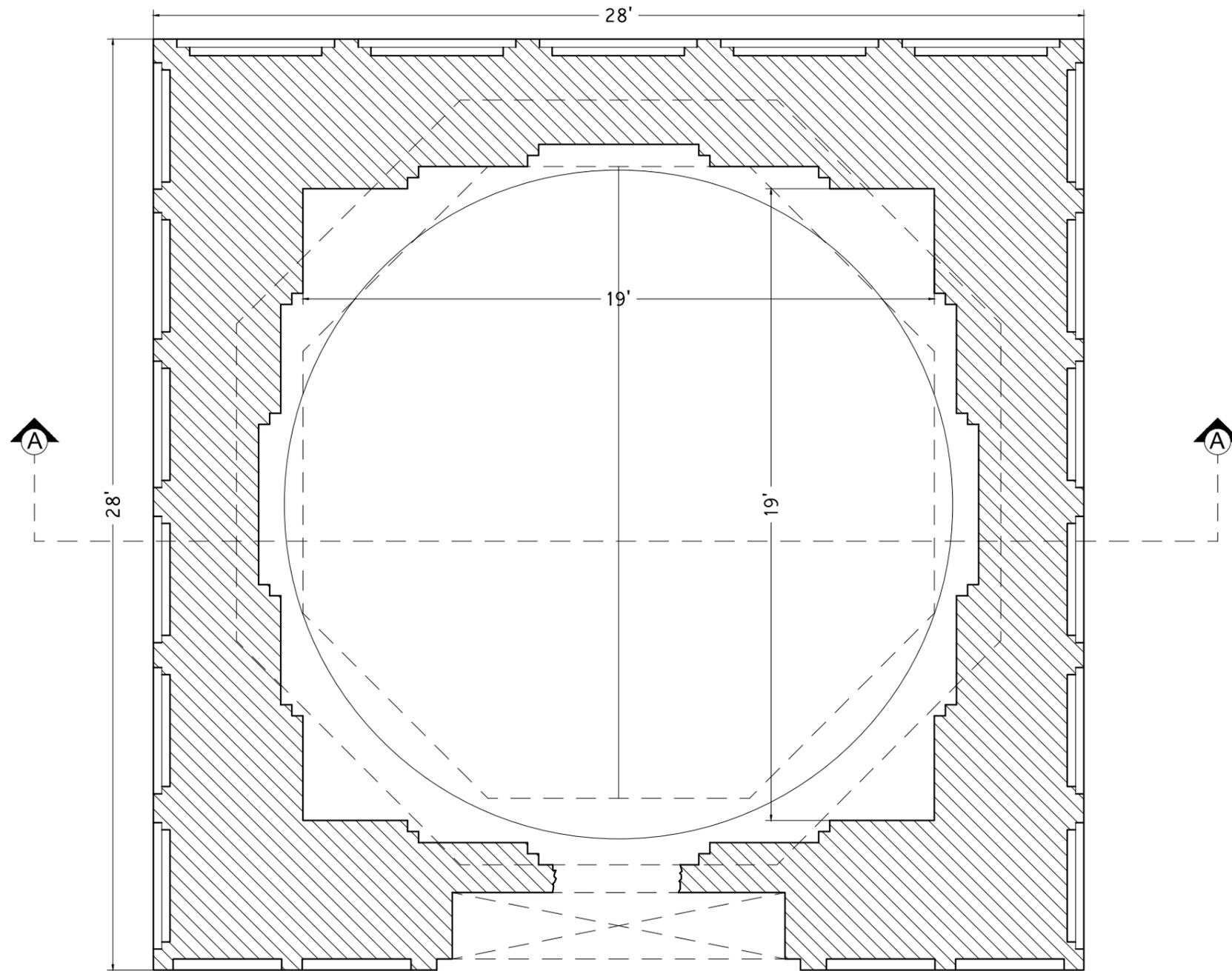
**AFTER**



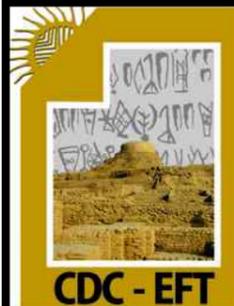
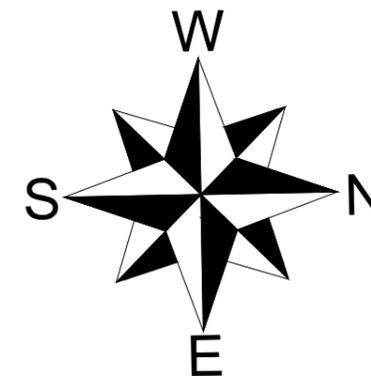


**Architectural Drawings**





PLAN



Center for Documentation  
& Conservation

Endowment Fund Trust

LOCATION

BAQRANI

DISTRICT: LARKANA

TITLE

DARYA KHAN ABRO PLAN

DRAWING TYPE

Architctural

SCHEDULE OF AREA

Area = 28'-0" X 28'-0"  
784.00 SQ-FT

DATE

JANUARY, 2016

SCALE

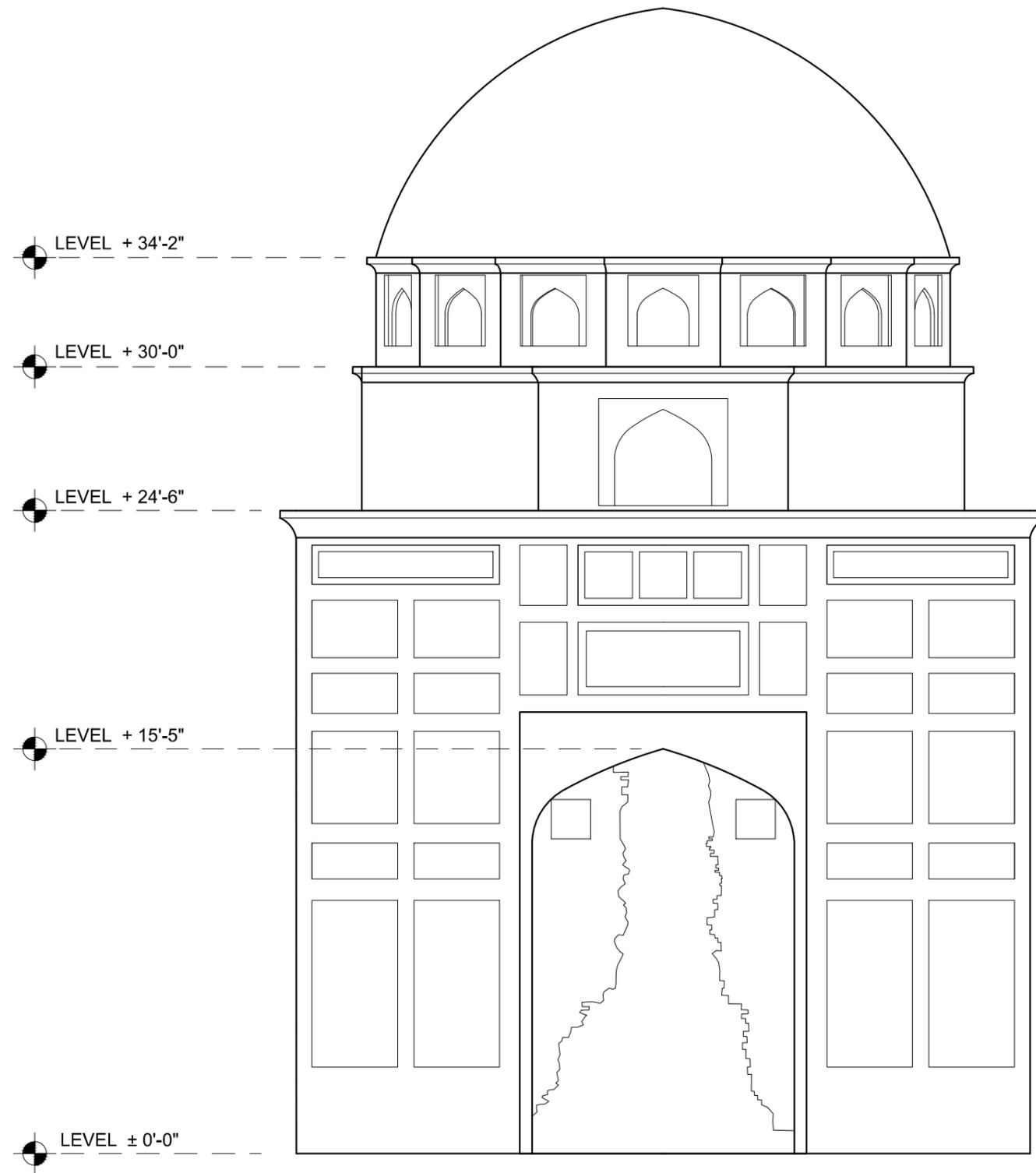
1'-0" =  $\frac{1}{4}$ "

ARCHITECT

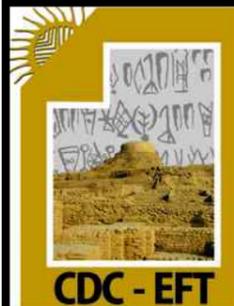
OWAIS ALI

DRAWN BY

HYDER ALI



EAST ELEVATION  
FACADE



Center for Documentation  
& Conservation

Endowment Fund Trust

LOCATION

BAQRANI

DISTRICT: LARKANA

TITLE

DARYA KHAN ABRO  
FRONT/EAST ELEVATION

DRAWING TYPE

Architctural

SCHEDULE OF AREA

Area = 28'-0" X 28'-0"  
784.00 SQ-FT

DATE

JANUARY, 2016

SCALE

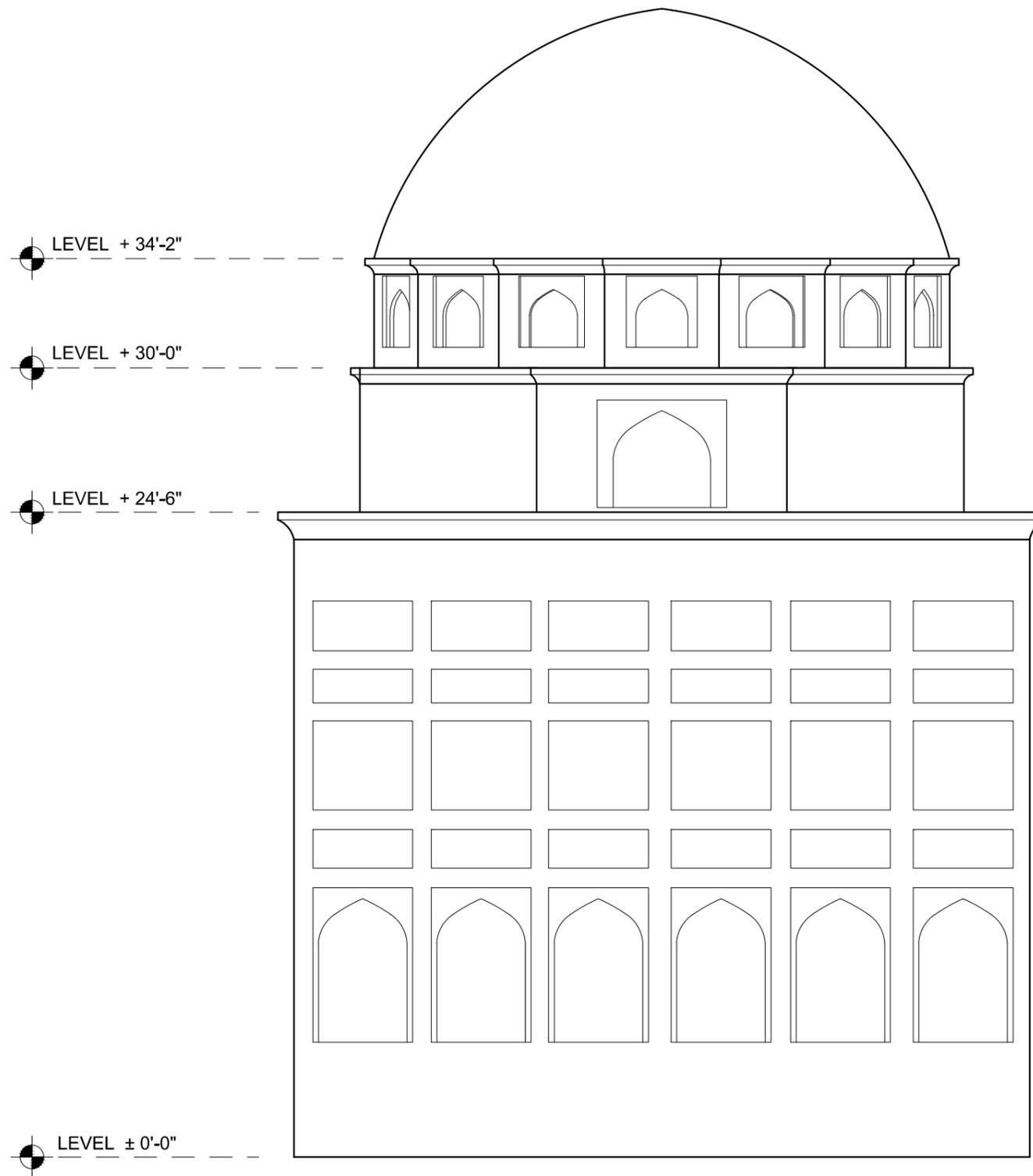
1'-0" =  $\frac{3}{16}$ "

ARCHITECT

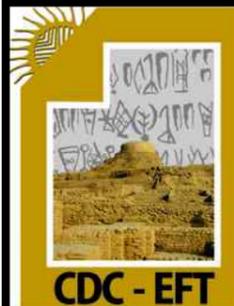
OWAIS ALI

DRAWN BY

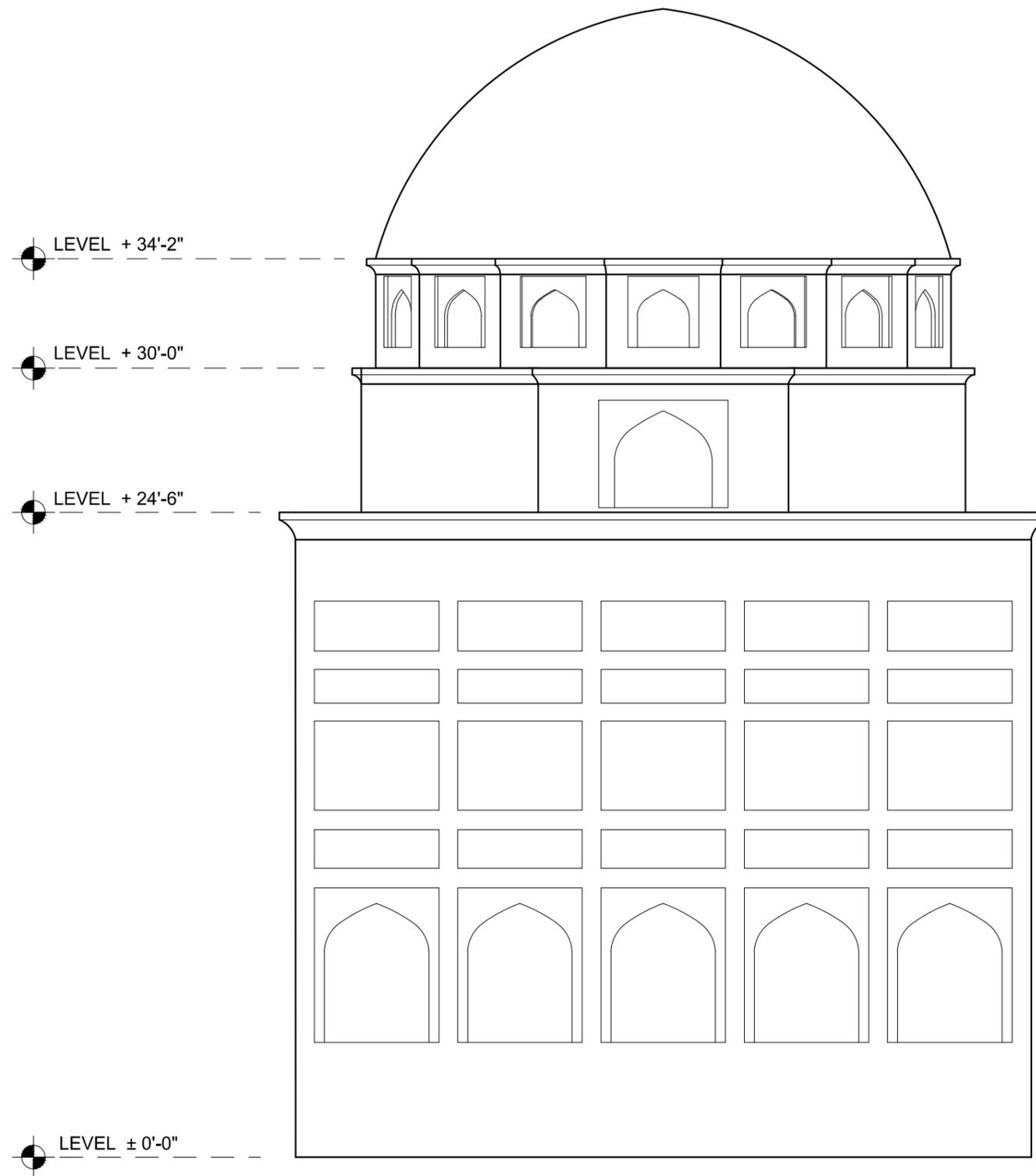
HYDER ALI



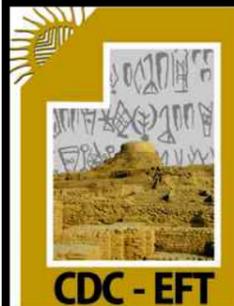
NORTH & SOUTH ELEVATION



|  |                   |   |  |  |  |                          |  |
|--|-------------------|---|--|--|--|--------------------------|--|
| Center for Documentation<br>& Conservation |                   | <i>TITLE</i>  |  | <i>SCHEDULE OF AREA</i>                |  | <i>ARCHITECT</i>         |  |
|  |                   | DARYA KHAN ABRO<br>LEFT,RIGHT/NORTH,SOUTH ELEVATION |  | Area = 28'-0" X 28'-0"<br>784.00 SQ-FT |  | OWAIS ALI                |  |
| <i>Endowment Fund Trust</i>                |                   | <i>DRAWING TYPE</i>                                 |  | <i>DATE</i>                            |  | <i>SCALE</i>             |  |
| <i>LOCATION</i>                            |                   |   |  | JANUARY, 2016                          |  | 1'-0" = $\frac{3}{16}$ " |  |
| BAQRANI                                    | DISTRICT: LARKANA | Architctural  |  |  |  | HYDER ALI                |  |



WEST ELEVATION



Center for Documentation  
& Conservation

Endowment Fund Trust

LOCATION

BAQRANI

DISTRICT: LARKANA

TITLE

DARYA KHAN ABRO  
BACK/WEST ELEVATION

DRAWING TYPE

Architctural

SCHEDULE OF AREA

Area = 28'-0" X 28'-0"  
784.00 SQ-FT

DATE

JANUARY, 2016

SCALE

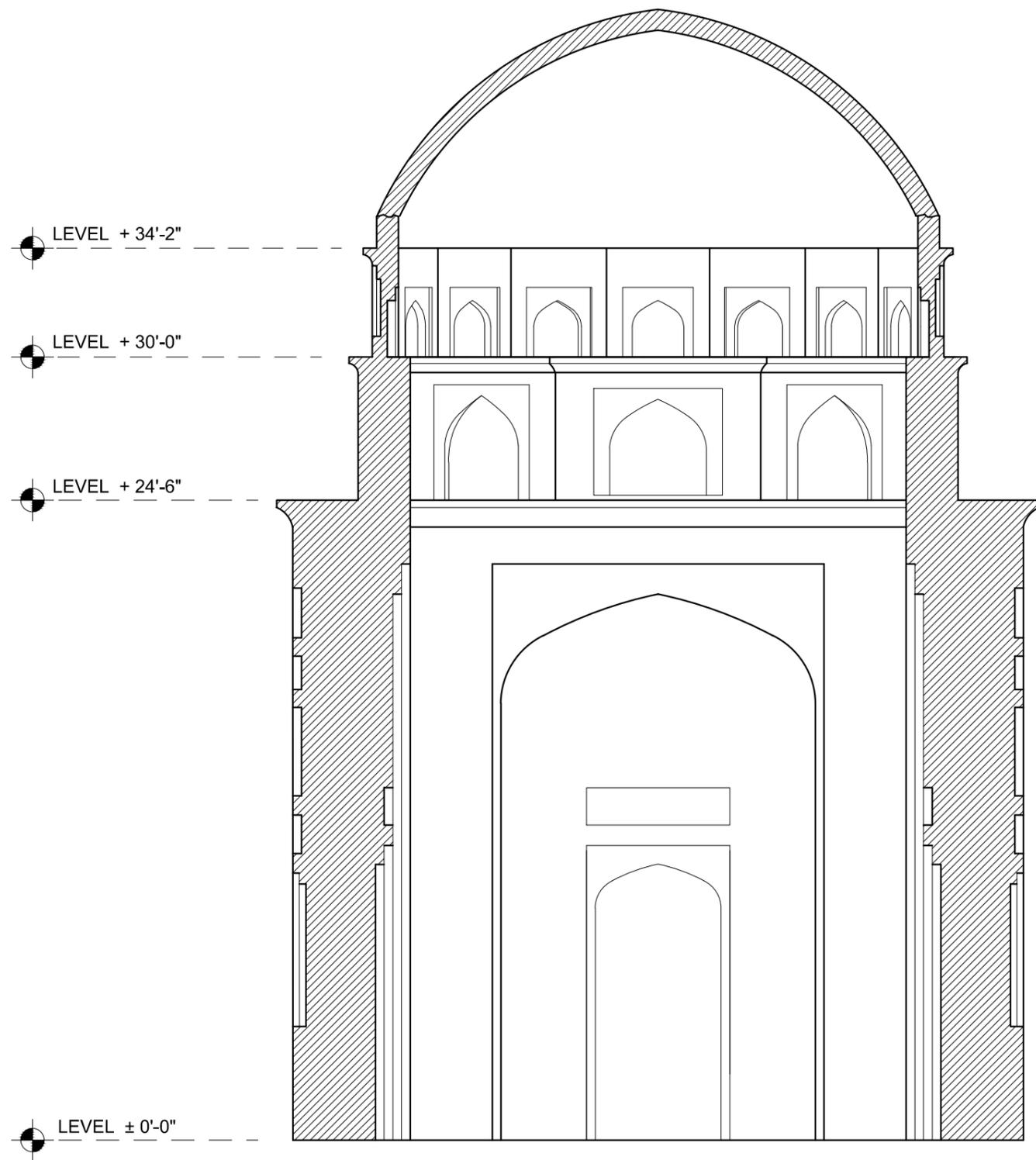
1'-0" =  $\frac{3}{16}$ "

ARCHITECT

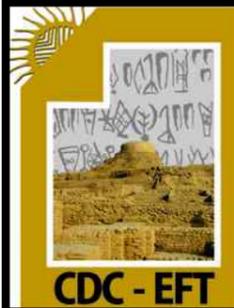
OWAIS ALI

DRAWN BY

HYDER ALI



SECTION AT A-A



Center for Documentation  
& Conservation

Endowment Fund Trust

LOCATION

BAQRANI

DISTRICT: LARKANA

TITLE

DARYA KHAN ABRO  
SECTION AT A-A

DRAWING TYPE

Architctural

SCHEDULE OF AREA

Area = 28'-0" X 28'-0"  
784.00 SQ-FT

DATE

JANUARY, 2016

SCALE

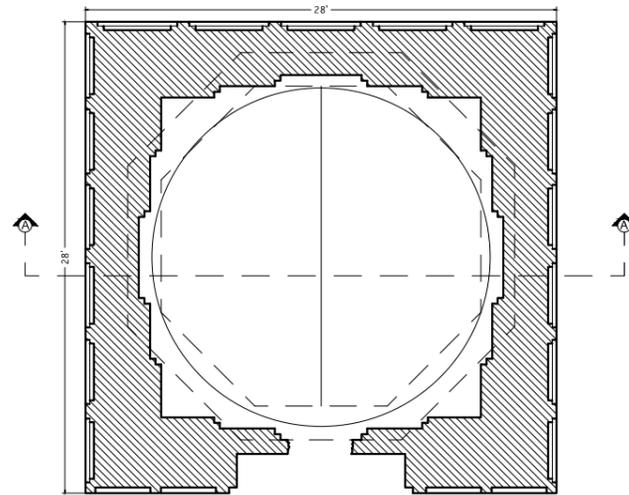
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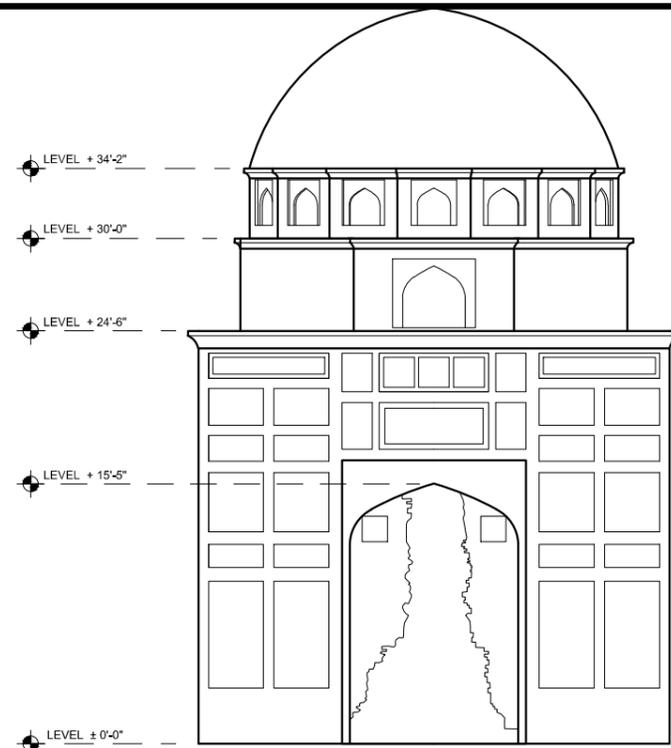
OWAIS ALI

DRAWN BY

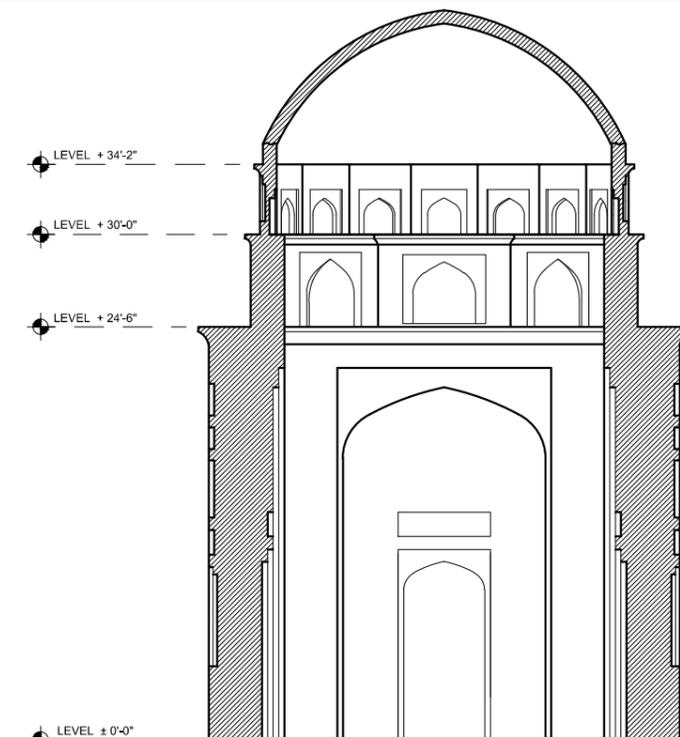
HYDER ALI



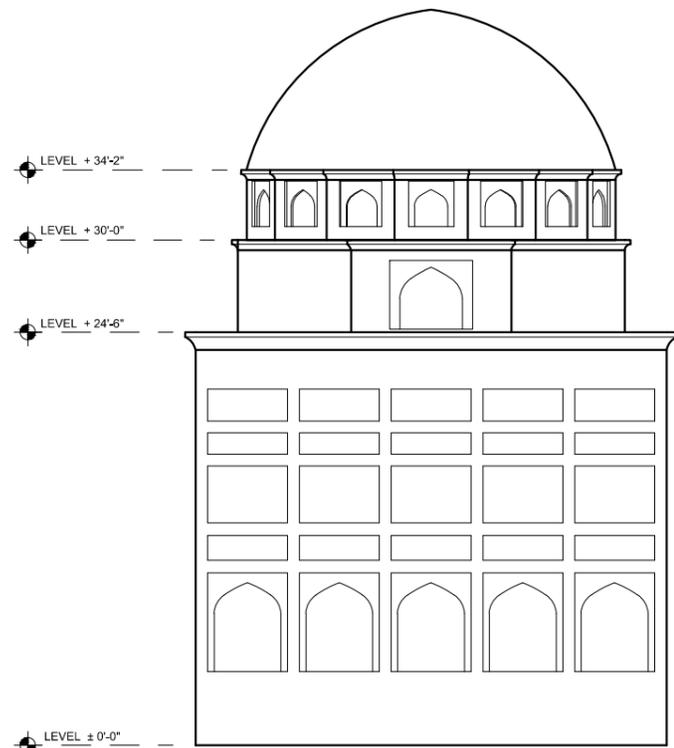
PLAN



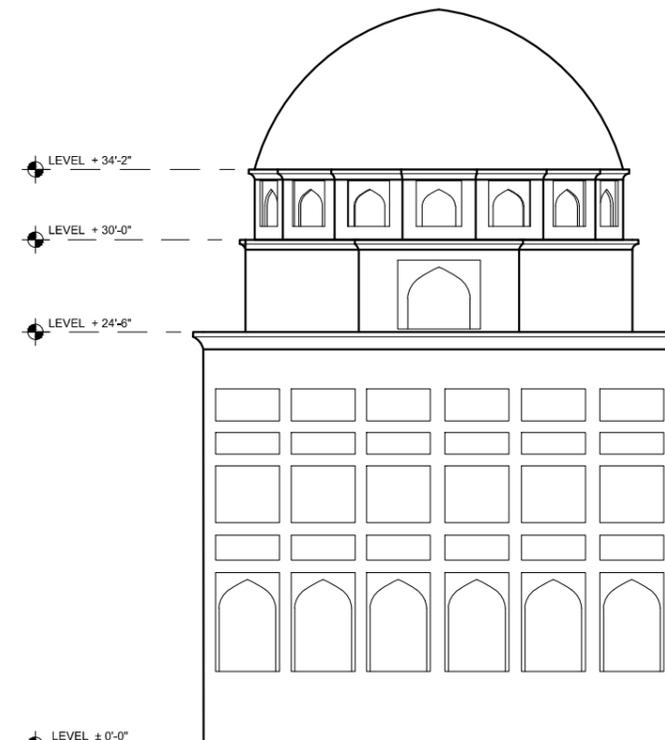
EAST ELEVATION  
FACADE



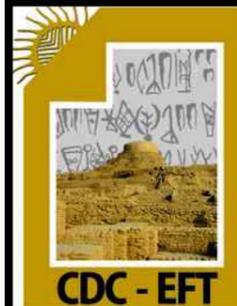
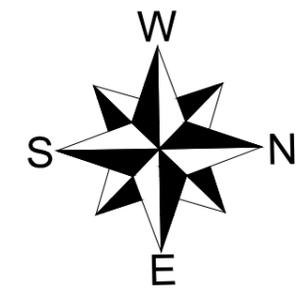
SECTION AT A-A



WEST ELEVATION



NORTH & SOUTH ELEVATION



Center for Documentation  
& Conservation

Endowment Fund Trust

LOCATION

BAQRANI

DISTRICT: LARKANA

TITLE

DARYA KHAN ABRO PLAN, ELEVATIONS AND SECTIONS

DRAWING TYPE

Architctural

SCHEDULE OF AREA

Area = 28'-0" X 28'-0"  
784.00 SQ-FT

DATE

JANUARY, 2016

SCALE

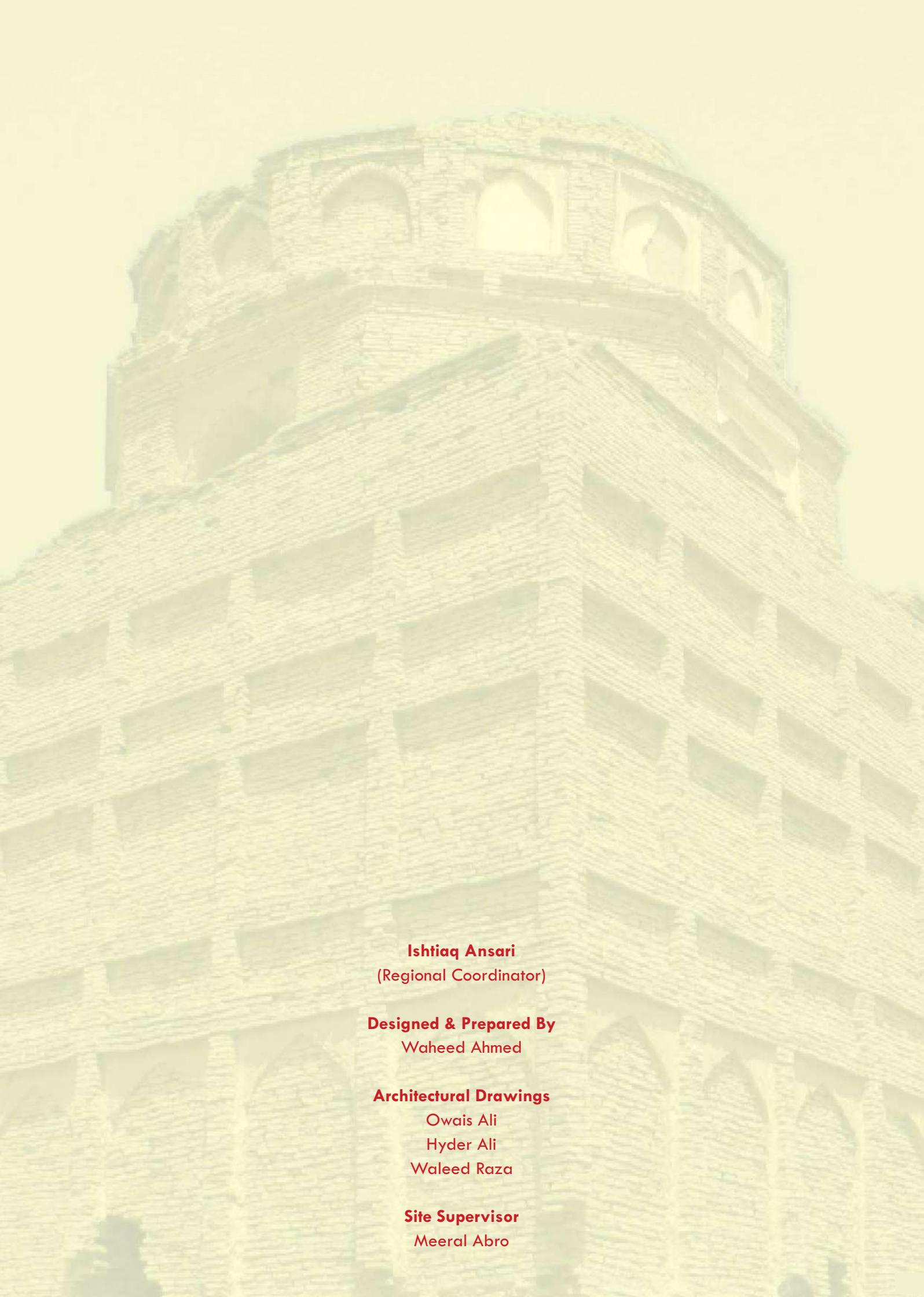
1'-0" =  $\frac{3}{32}$ "

ARCHITECT

OWAIS ALI

DRAWN BY

HYDER ALI



**Ishtiaq Ansari**  
(Regional Coordinator)

**Designed & Prepared By**  
Waheed Ahmed

**Architectural Drawings**

Owais Ali  
Hyder Ali  
Waleed Raza

**Site Supervisor**  
Meeral Abro