Conservation ID: CL4.1993.1.1-57

Object ID: 1993.1.1-57 Object Synopsis: facade | palace | Section of Palace Facade | Islamic | Pakistan | wood | metal | c. 1835 | TL-13359

Overview/Purpose Date of Initiation: Purpose: Assess	3/22/2021	atment for installa	tion	Primary Conservator:	Emily Brzezinski		
Type of Record:	Treatment			Due Date: 3/26/202	1		
	nna Piwowa ina Laurin	r					
Examination Tab							
Exam Date 3/22/2021	Conservat Emily Brze						
Conservation Med	lium:						
Object Description	:						
Condition Description:		The façade is structurally stable. However, there are scattered areas of degraded wood exhibiting cracking, splintering, and minor checking. These areas are located at the verso, corners, and edges of the sections where they would connect to the larger façade.					
		waxy feel. It occu and darker, more	rs on the carved fasturated areas.	ace of the sections, more It is generally minimal and	, thin, and has a slightly slick or commonly in the carved recesses d irregularly distributed but appears document), most notably the interior		
		The surface exhib	oits dust and dirt o	verall, heavy and ingraine	ed on the verso.		
Proposal Tab Proposal Date: Proposal:			С	onservator:			
Est. Hours:							
Approved By: Approved Date: Approved Notes:							
Treatment Tab							
Start Date: Treatment Report:		Done Da ns received the fo re given in the tabl	llowing cleaning, a		Conservator: Emily Brzezinski evived the described stabilization.		
	1. Cleani	ng:					
	- Each se	ection was vacuum	ned with a natural	fiber bristle brush to redu	ce surface grim and the unknown		

- Areas of heavy bloom were cleaned a second time with a worn toothbrush and vacuum until the bloom was removed.

bloom.

2. Stabilizing cracks and breaks

- Approximately half the second exhibited minor cracks, areas of checking wood, or small loose splinters. These areas were stabilized to prevent further damage during installation or when the sections are assembled, and the degraded wood supports weight.

- Some areas were stabilized with high tack fish glue and weighted or clamped in place. This method was used for areas that would be visible during exhibition, such as the carved face, or areas that needed to support addition weight or abrasion, such as tenon joins or edges of beams.

- Some areas were stabilized with 50% Paraloid B72 in acetone bulked with micro balloons. The solution was not toned to match the wood. This method was used for checked or worn wood or loose sections that could not be stably adhered with high tack fish glue. It was primarily used on the back of the piece or areas that would not be visible during exhibition.

- Two sections required more involved stabilization, including repair to the mortis and tenon join of 1993.1.5, and shims to stabilize the cross member of 1993.1.22. Details are given in the attached document.

3. Given the size and volume of the objects, this treatment did not involve before and after photography for every section. Only a few sections had heavy enough bloom to appear visibly different after treatment.

Summary: Surface dusting and minor stabilization

Hours: 32.00

Bibliography Tab

Bibliography: ,,,, Pages: Notes: Used As:

Image Tab

Image Type:
Source:
Captured by:
Capture Date:
Web Ready?
Publication Ready?

Party Tab

Party: Party Role: Begin Date: End Date: Individual: Full Address: Title: Phone Number: Notes:

Sample/Analysis Tab

Sample/Test	Areas
Number: Date:	Sample 1 and 2 4/2/2021 12:00:00AM
Description:	Two samples were taken of the unknown white bloom from the interior and exterior of the door (1993.1.14b) to identify the unknown compound.
Location:	Samples analyzed by the Winterthur Garden and Library Scientific Research and Analytical Laboratory (SRAL) by Dr. Rosie Grayburn. Credit required upon publication see attachment. Sample 1: Exterior edge of the door Sample 2: Interior edge of the door

Specific location given in the attached request for analysis

<u>Analysis</u>

Date: Type of Analysis: Sample Used:	4/14/2021 12:00:00AM Fourier Transform Infrared Spectroscopy (FTIR) X-Ray Diffraction (XRD) Sample 2
Results/Notes:	FTIR identified a good match with palmitic acid, a common saturated fatty acid found in plants, animals, and microorganisms. It is the major ingredient in palm oil.
	XRD determined that there were no salts present in the sample, but no other results. Since the sample was organic, XRD would not have been able to provide additional information.

Budget Estimate

Contractor/Item	Hours/Quantity	Rate/Price per Item (\$)	Subtotal (\$)		
		TOTAL			
Actual Costs					
Contractor/Item	Hours/Quantity	Rate/Price per Item (\$)	Subtotal (\$)		

TOTAL

preventive protocols, and anticipate when the material may reoccur on the surface.

Analysis requested:

X-Ray Diffraction (XRD): XRD will show the molecular structure of the sample, characterizing the material. If the material is a salt efflorescence, XRD could provide detailed information on the composition or crystalline structure.

Fourier-Transform Infrared Spectroscopy (FTIR): FTIR could additionally characterize the molecular make up of the material and provide additional details of the material is an organic, fatty bloom.

Samples:

Sample 1: (Fig 1-2) thin, white, waxy bloom present over much of the surface, taken from the front interior edge of the proper right door (1993.1.14b), sent in vial

Sample 2: (Fig 3), thicker, white, fluffy rather than waxy bloom, taken from the back of the proper right door's interior edge. Had a different consistency than bloom on the rest of the surface, but possibly just a heavier area and same material as Sample 1. Sent in slides.

USE OF INFORMATION:

Is publication or other sharing of this information outside of Winterthur Museum (exhibits, catalogs, etc) possible or anticipated? If so, where or with whom?

The project will be shared in the Denver Art Museum's (DAM) online blog series after September/October 2021, as part of an outreach campaign for the opening of the Martin building that houses the DAM's permanent collection. The blog is available on the museum's public website: <u>https://www.denverartmuseum.org/blogs</u>.

If so, please note that Analytical staff must be <u>properly acknowledged</u> and <u>permission to publish</u> analytical data <u>must be obtained</u> from the Director of Conservation.

A photograph or clearly drawn diagrams of object with sample locations marked must be submitted with this



Fig 1: Overall view of the façade installed, Fig 2 (below, with sample 1 area) shown in yellow square



Fig 2: Detail of proper right door 1993.1.14b. Location of Sample 1 shown in yellow arrow



Fig. 3 Underside of proper right door 1993.1.14b. Location of Sample 2 shown with skewer

Samples removed by: Emily Brzezinski

Date: March, 26 2021

