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Condition Assessment and Treatment Report for the Conservation of Rare Book: A Case Study

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ABSTRACT

The aim of physical inspection is to collect information of the prescribed rare book. When it is received for treatment, the conservator should record information, how the book has appeared to his eyes. In this case the physical conditions of the book and their folios, missing portion if any, damages are recorded, history, provenance, owner of the books and background information such as condition of the storage or display area where the object was stored or displayed etc. In the reference of paper documents physical inspection is too important, because deteriorated paper is physically more sensitive as compare other material. This inspection begins with an analysis of both the material and cultural characteristics of the work and a real diagnosis is made in identifying the alterations and their causes. On the basis of this information the treatment most appropriate to the characteristics and the state of alteration of the document is prescribed. Analysis is carried out with the aid of the sciences applied to restoration work which will determine, on the basis of the physical, chemical and biological tests performed, the nature and state of conservation of the work. In this paper, I will describe all details regarding condition report, proposed treatment report and after treatment report.

KEYWORDS: Book, condition report, conservation.

INTRODUCTION

Documentation consists of written and photographic records of examination, sampling, scientific investigation, proposed treatment and treatment report of any book. In this step a conservator fill the documentation sheet properly. Conservator examine condition of book and do some test such as check the acidity with the help of pH paper or pH meter, check the ink either soluble or insoluble in water or alcohol, stability of paper, acidity of ink and other pigments, length and thickness of fibers, brittleness of paper, thickness of paper, shape and size, porosity of paper, etc.

Documentation sheet generally divide in three sections. In the first section, conservator fill general information regarding book, all physical and internal problems. Second section has all details of proposed treatment work. And Third section has all details of after treatment work. Documentation sheet also has some photographs regarding the condition of book, before and after conservation work.

DOCUMENTATION SHEET

General information of book

Laboratory number- 2016-03-91

Accession number- C-3845

Title of the book- Central Provinces district

Gazetters Betul District,

Volume -A

Type of the document- Rare book

Name of the editor- R. V. Russell, I.C.S.

Details of publication- Allahabad printed at the

pioneer press

Provenance- Nagpur, Maharashtra, India Owner/Custodian- Rashtrapati Bhavan, New

Delhi, India

Date of receiving the bookDate of starting the workDate of complete the workDate of returning the book21/03/2016
10/05/2016
24/05/2016

Personal details of Conservator

Name- Mohammad Nooruddin Ansari

Designation- Senior Research Fellow,

Deptt. of Museology, AMU,

Aligarh

Email address- noorignca@gmail.com

Mobile number- 8077277728

Laboratory- Conservation laboratory,

IGNCA, New Delhi

Description

Text block

Support

Paper typeLanguage/scriptWriting/designDimensionsShapeHandmade
English
Both side
20.8 X 14.0
Rectangular

Total no. of folios- 151

Present color- Yellowish

Medium/Media

Illustration- Yes

No of folios/plate- Five (Page no.- 01, 17, 36,

141, 145)

Map- Two (Page no. - 12 - 13,

108)

Graph- Not available

Housing

Mat/backing material-Not available

Box-type container - Not available

Binding

Nature- Hard cover Materials- Paper and rexin

Condition of spine- Braked Biological problem- Yes

Condition of cover-

Binding technique- Hard binding sewn by hand

Damaged

and guarding is round at a

spine, due to this rounding, large number of folios were broken from the folding

marks.

Extraneous attachments/evidence of previous treatment

<u>Lining-</u> Not available <u>Mount-</u> Not available

<u>Hinges</u>- Not available Previous repairs/inserts- Some folios re

Some folios repaired with paper stripes

Tapes- Some tears treated with

Yes

transparent tape

Condition

Stains-

<u>Discoloration</u> Darkening/Yellowing- Yes

Contact with poor quality

material/mats- Available
Tape- Available
Adhesives- Available

Foxing- No Yes

Mold growth and/

or stains- Not available

Tide lines/water and

liqu<mark>id s</mark>tains- Available

Staining induced by

media- Available
Flyspecks- Available
Accretions- Available
Surface soiling- Available
Fingerprints- Available
Previous retouching- Not available

Structural condition

Brittleness- Yes

Flexibility- Not flexible Tears/breaks- Available

Losses- Yes

Pin or tack holes- Available
Abrasion/skinning- Available

Stuck pages- Yes
Thinning- Yes

Overall planar distortions

Cockling/buckling- Yes
Bulges- Yes

Creases- Available
Folds- Available
Wrinkles- Available
Flattened plate mark- Available
Scratches- Available

Porosity- Yes Trimmed edges- Yes

Yes Media loss/abrasion-

Softness due to loss

of sizing-Yes

Fungus

Not present Live-Powdery form-Not present Stain-Not present

Insect

Live-Not present Eggs-Present Larva-Not present Remains-Present Type of ink-Printed Type of pigments-Printed Charring-No

Testing and analysis

Type of test

Acidity (pH value) of Paper documents

Before-6.5 6.5 During-After-6.5 Ink 6.5 Before-During-6.5 After-6.5 **Pigments** 6.0 Before-6.0 During-After-6.0 Solubility of ink

Not soluble In water-Not soluble In alcohol-

Solubility of pigments

In water-Not soluble In alcohol-Not soluble

Proposed treatment

- Documentation (Manual and Digital)
- Removal of binding media and thread from the spine
- Removal of previous interventions
- Cleaning (Dry and Wet)
- Arrangement of section according pagination
- Flattening
- lining with tissue paper (Kozu Fibre, 9 GSM) with partially glutton free starch paste
- Hole mending tear mending and edge mending with Japanese tissue paper
- Drying
- Trimming of excess tissue paper
- To arrange section according to pagination
- Binding (stitching and preparation cover)

Preparation of archival box

Treatment report

Conservation of text block

Detailed documentation including photography was done on the already opened book. Pagination of book was done. Each and every page was cleaned. The stuck pages were separated using moisture, stuck pages were kept in ultrasonic humidifier for giving moisture. The broken pages were repaired with Japanese paper (kozo fibre). According to the pagination section were made of 4-10 folios. Each and every page was washed and the one which required lining was lined using japans paper and starch paste (reduced gluten). The lost portions of the pages were repaired using handmade paper (15gsm). During this process holes, tear and edges were repaired.

All the folios and sheets were dried and flattened under felt. Excess tissue paper were trimmed. No original paper during trimming was touched. Sections were arranged and the book was bound on the binding stand using needle and thread. During the binding of book two cotton stri<mark>ps w</mark>ere so<mark>wn arou</mark>nd the thread which holds eac<mark>h an</mark>d every section.

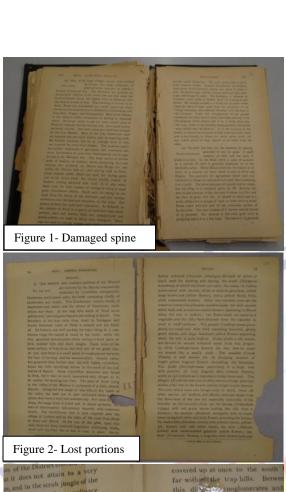
Restoration of book case/cover

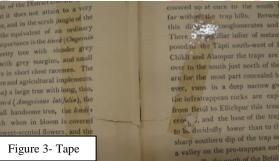
The rexin of the cover was mechanically separated. After removing the rexin from the damaged board, the rexin was mechanically cleaned; lining/support of de-starched muslin cloth using/applying adhesive of partially glutton free starch paste was given. The prepared cover was kept under felt for a day to provide slow drying. After drying of lined rexin, the rexin was pasted on an acid free mount board of 2000 GSM, using/applying reduced gluten free starch paste, and subsequently the prepared cover was kept under pressure machine to make it wrinkle free and flat.

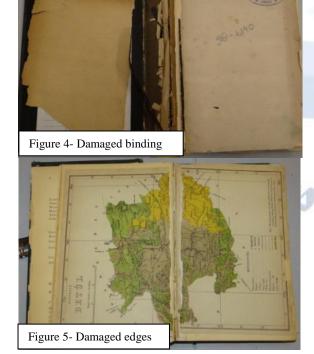
The cover was subsequently attached to the bound book using starch paste (reduced gluten). The book was kept under pressure for one day.

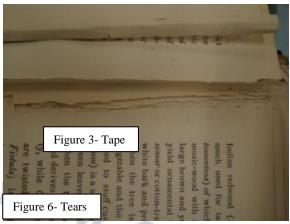
The box for the book was made from handmade mount board, cotton cloth with the help of starch paste.

Photographic details Condition of book before conservation

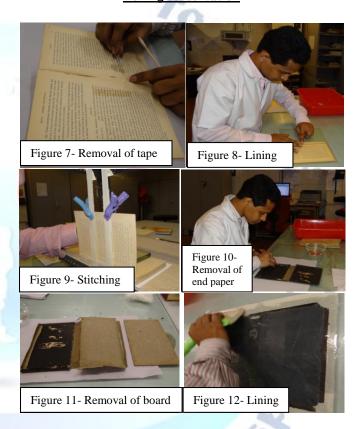






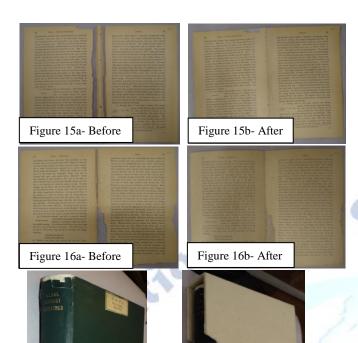


During conservation



Before and After conservation





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CONCLUSION

Figure 17- Complete book

The project is aimed at building a flexible invoicing system which can precisely match content PDF files, easily match line items and tables and automate the entire invoicing process for any major organization. The system has the ability to obtain all relevant information from the document with 100% accuracy while ensuring speed and reliability. This project has a huge potential for further development. While the problem focuses on digitization of invoices, this could be extended to digitizing any document for processing, thereby removing any manual efforts, errors and management of document processing within companies.

Figure 18- Archival box

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