

Appendix – Conservation vertical

Conservation lab furniture	Tools and Equipment
• Tables with matt finish sunmica top preferably of an off-white colour. • One light table. • One cupboard with adjustable shelves. Keep additional shelves • Work chairs for staff • Drying rack • Chemical rack • Tools cabinet • Furniture for administration, keeping records etc. • Other items as per requirement	• Flat and round brushes: sable hair, hog hair, synthetic, of various sizes • Electric heater • Double boiler pan • Distillation plant • Kipps apparatus or carbon dioxide cylinders • Enamel and plastic trays for different sizes of manuscripts and documents • Glass or polycarbonate beakers of different sizes • Glass rods • Test tubes and holders • Vacuum cleaner including a small portable one • Conservation tool kit with scalpels, cutters, swab sticks etc. • pH indicator materials • Other items as per requirement • Dry and wet bulb thermometer • Dab machine • Paper cutter machine

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Conservation materials:

I. Paper material:

- Handmade paper of various thickness, textures and colours as required for the respective collections
- Lens tissue, Nepalese tissue, Banana tissue etc
- Binding materials
- Acid free mount board
- Melinex, polythene
- Tissue paper : Alpha cellulose content not less than 88%, Copper number not more than 1.5, GSM 9-11, Ash content not more than 0.05%, pH not less 6.0

II. Materials to control bio-deterioration

- Anti-fungal agents such as thymol, orthophenylphenoletc
- Solvents such as trichloroethylene, toluene, methanol, ethylene dichloride etc
- Carbon dioxide gas
- Para dichloro-benzene
- Insecticidal powders such as borax etc
- Other items as per requirement

III. Chemical material:

(a) Consolidate chemicals:

- Paraloid B-72 granules

(b) De-acidification materials:

- De-ionized water (distilled water)
- Calcium hydroxide
- Magnesium hydroxide
- Calcium hydroxide
- Magnesium methoxide
- Methanol
- Acetone

(c) Re-strengthening materials:

- Citronella oil (for palm leaf manuscripts)
- Lemon oil (for palm leaf manuscripts)
- Camphor oil (for palm leaf manuscripts)

(d) Adhesives:

- Gluten free starch paste/starch paste with pinch of podium floride
- Sodium Salt carboxy methyl cellulose
- Methyl cellulose
- Klucel G

(e) Binding materials:

- Mount board: Acid free mount board 3mm thickness, 1500GSM, Ash content not more than 10%, pH not less than 6.5 9.7.2.
- End Paper: Good quality handmade paper, 100-200 GSM • pH not less than 6.0 9.7.3
- Sewing thread: Good quality cotton, Normal width of 1.2cm to 2.5 cm, Tapes and cords

IV. Converging materials (Art canvas/Rexine)

- Fabric base unsized cotton
- Free from pinholes & mechanical defects
- Soft finished cloth/rexine
- Rexine shall be used in place of cloth. (plastic should be totally avoided)
- Preventive conservation materials and techniques

V. Herbal materials for preventive conservation

- Vacha (Marthi: vekhand, English: sweet flag) powder
- Kala jira (Black Cumin)
- Kalimirch (Black Pepper)
- Laung (Cloves)
- Kapoor (Camphor)
- Neem leaves (shade dries and powdered)
- Tobacco leaves (shade dried and powdered) • Citronella oil
- Imli seed powder (powder of shade dried tamarind seeds)
- Haldi powder (Turmeric powder)
- Morphantk (Peacock feather)

VI. Indigenous wrapping/packing material

- Red cotton cloth (Hindi: Veshtan/Ekranga/ Bengali: Shalu)
- Yellow cotton cloth
- Yellow/golden yellow silk cloth
- Acid free paper
