



CHAPTER- 3

**MATERIALS
AND
TECHNIQUES**

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A large number of fresh water fishes were collected from local fish landing centres, viz, lakes, ponds, rivers and sometimes from fish markets of Raibaraly. Similarly marine fishes were collected from the fisherman at different fish landing centres of Puri coast, Orissa and thoroughly examined to procure the trematode parasites from them, the parasites collected were made to relax in saline solution, gently stretched under slight pressure of cover glass and fixed in 70% alcohol. The parasites after fixation were stored in 70% alcohol containing 5% glycerine.

The parasites for wholmount were stained in Meyers acetic-alum carmine, (approximately 2 gms.carmine in 100cc. of saturated solution of potash alum in distilled water to which 10% of glacial acetic acid is added) the differentiation of the stained parasites, if necessary, was done in acid alcohol. The parasites were then dehydrated in graded series of alcohols, cleared in clove oil and mounted in Canada balsam or D.P.X.

The sketches were drawn by using a Camera Lucida and the measurements were taken in millimeter by using scales

drawn with standard stage micrometer. The finished sketches were traced on to a tracing sheet and inked with India ink. The inked sketches were then scanned and printed by computer.