

**SPECIATION OF HEAVY METALS IN SLUDGE FROM
ELECTROPLATING INDUSTRY**

NOORHAZLINA BINTI ABU BAKAR

**DISSERTATION SUBMITTED IN FULFILMENT OF THE
REQUIREMENT FOR THE DEGREE OF MASTER OF
TECHNOLOGY (ENVIRONMENTAL MANAGEMENT)**

**INSTITUTE OF BIOLOGICAL SCIENCES
FACULTY OF SCIENCE
UNIVERSITY OF MALAYA
KUALA LUMPUR**

2013

UNIVERSITI MALAYA

ORIGINAL LITERARY WORK DECLARATION

Name of Candidate: NOORHAZLINA ABU BAKAR (I.C/Passport No: 800115-07-5340)

Registration/Matric No: SGH080023

Name of Degree: MASTER OF TECHNOLOGY (ENVIRONMENTAL MANAGEMENT)

Title of Project Paper/Research Report/Dissertation/Thesis ("this Work"):

SPECIATION OF HEAVY METALS IN SLUDGE FROM ELECTROPLATING INDUSTRY

Field of Study: ENVIRONMENTAL CHEMISTRY

I do solemnly and sincerely declare that:

- (1) I am the sole author/writer of this Work;
- (2) This Work is original;
- (3) Any use of any work in which copyright exists was done by way of fair dealing and for permitted purposes and any excerpt or extract from, or reference to or reproduction of any copyright work has been disclosed expressly and sufficiently and the title of the Work and its authorship have been acknowledged in this Work;
- (4) I do not have any actual knowledge nor do I ought reasonably to know that the making of this work constitutes an infringement of any copyright work;
- (5) I hereby assign all and every rights in the copyright to this Work to the University of Malaya ("UM"), who henceforth shall be owner of the copyright in this Work and that any reproduction or use in any form or by any means whatsoever is prohibited without the written consent of UM having been first had and obtained;
- (6) I am fully aware that if in the course of making this Work I have infringed any copyright whether intentionally or otherwise, I may be subject to legal action or any other action as may be determined by UM.

Candidate's Signature

Date

Subscribed and solemnly declared before,

Witness's Signature

Date

Name: DR. SHARIFAH BT. MOHAMAD

Designation: LECTURER, DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, UM