

STATEMENT 1

The subject matter of my thesis is based on the discovery of new facts with regard to the high pressure catalytic synthesis of adipic acid from tetrahydrofuran, carbon monoxide and water, and the synthesis of delta-valerolactone from tetrahydrofuran and carbon monoxide, using nickel, cobalt and iron catalysts developed in this laboratory. The work is of both technical and academic importance, and thus the work makes a definite contribution to the advancement of knowledge in the field of catalysis and high pressure synthesis.

STATEMENT 2

This thesis embodies the results of experimental investigations carried out independently by me. The work is completely original. Scientific journals and monographs have been consulted as usual and detailed references to these are given in the bibliographical section of the thesis.

S.K. Bhattacharyya .
(S.K. Bhattacharyya)
D.Sc., F.R.I.C., F.N.I.
Supervisor.

D.K. Nandi
(D.K. Nandi)
M.Sc.
Examinee.