

**DEVELOPMENT OF ECONOMICALLY AND ECOLOGICALLY  
FEASIBLE TREATMENT PROCESS FOR PHENOLIC WASTES**



**A THESIS SUBMITTED TO  
THE M.S. UNIVERSITY OF BARODA  
FOR THE DEGREE OF**

*Doctor of Philosophy*  
*(Chemical Engineering)*

**BY  
DEEPAK M. JAIN**

**UNDER THE SUPERVISION OF  
PROF. VASDEV SINGH**

**CHEMICAL ENGINEERING DEPARTMENT  
FACULTY OF TECHNOLOGY AND ENGINEERING  
THE M.S. UNIVERSITY OF BARODA  
BARODA, GUJARAT, INDIA**



P/TH  
11156