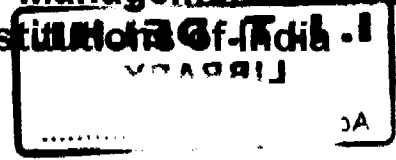


**A Study of Select Intellectual Property Management Issues
in Premier Technical Academic Institutions of India**



by

KOTESWARA RAO NAIK B
Department of Management Studies

Submitted
in fulfillment of the requirements of the award of degree of

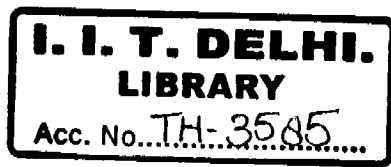
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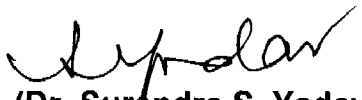
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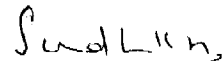
The thesis entitled **“A Study of Select Intellectual Property Management Issues in Premier Technical Academic Institutions of India”** being submitted by **Mr. Koteswara Rao Naik B** to the Indian Institute of Technology Delhi for the award of the degree of Doctor of Philosophy is a record of bonafide research work carried out by him under our guidance and supervision. He has fulfilled the requirements for a Ph.D. degree of the Institute. The research findings presented in this thesis have not been submitted anywhere else for the award of any other degree or diploma.



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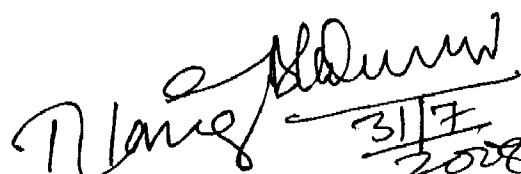
I would like to express grateful thanks to the IRD, IPR Cell and Deans (R&D) of IITs and IISc for their support in facilitating data collection of secondary data. I would like to express my heartfelt thanks to all faculty members, who responded to the questionnaires and helped me gain an insight in the current situation of the R&D and IPR awareness. I am grateful to all those officials who spared their time in providing the information on patent database of their institutions.

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brought me up to the present level and inspired me up to the doctoral level studies.

I feel privileged to have got the opportunity to carry out doctoral research at I. I. T. Delhi. I would also like to extend my sincere thanks to the staff members of the Department of Management Studies and PG Section for their administrative support. I also express heartfelt thanks to the Librarians and staff members of the Indian Patent Office (Delhi), IIT Delhi, INSDOC, TIFAC. Last but not the least, I am grateful to all others who directly or indirectly contributed towards completion of my doctoral thesis.

Every end is the beginning of another life. I wish yesterdays' mentors (gurus), friends and well wishers will share the future moment's ecstasy and agony.


(KOTESWARA RAO NAIK B)

ABSTRACT

Intellectual property (IP) refers to an intangible asset. Rights of IP, i.e. IPRs have come into prominence since inclusion of the TRIPS Agreement in the Uruguay Round of GATT negotiations, which started in 1986. WTO-led globalization and the resulting change in the importance of innovations are tending to push the technical academic institutions from paper-worthy research to patent-worthy research.

In India, the premier technical academic institutions have a traditional culture of disseminating most of the research output in the academic journals rather than protecting the research-based inventions through patents but, in recent past, the patenting activity at these institutes has become more dynamic and it shows the realization of the importance of intellectual property protection at these institutions. The present study revolves around certain aspects of management of IP, particularly the patents in the premier technical academic institutions in India.

The present study is an exploratory study and is intended to analyze various aspects of IPR management in selected premier technical academic institutions in India. In particular, the main objectives of the study are: (a) to examine the understanding of IPR issues among the faculty members of these institutions and the prevailing IPR administrative support system, (b) to study the patent applications filed, patents granted, patents maintained and transfer of technology by the sample academic institutions, (c) to analyze the research objectives of the faculty members and their purpose of patenting activity and (d) to study the importance and satisfaction level of research facilities and related support.

The scope of the present study is limited only to patenting activity and not to the other forms of IPRs. The present study is based on primary as well as secondary data. The secondary data are collected from the IPR Cells or R&D Units of the respective institutes. The required primary data for the study were collected through a structured questionnaire administered to all the faculty members of science and technology departments of the selected premier technical academic institutions. A total of 247 valid responses were collected from the sample institutions. The responses were subjected to statistical analysis with the help of SPSS.

The study provides empirical results relating to various aspects associated with management of Intellectual Property, particularly patents. The study reveals that understanding level of the faculty members about various IPR issues is low. The support from patent facilitation system is rated below average. Patenting and technology transfer need to go together, but the situation is different in the sample institutions. The relationship between the patents filed and technology transferred is weak.

There is less focus on patenting because the teaching and research are considered as the basic role of faculty and conventionally research should primarily lead to publications and not necessarily to patents. The faculty of biotechnology and chemical related areas has been found to be filing more patent applications than the faculty in other areas. Research facilities and related support makes the difference in research quality. For carrying out a fruitful research, the human resource support and technical manpower support are essential variables, which have been found to be most important by the faculty. Research funds availability from the government agencies is good, but funds from private corporate sector are not adequate and not meeting the satisfaction level of the faculty.

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