

# Table of contents

Preface	02
Acknowledgements	03
List of Local Project Advisory Member	04
Abbreviations	05
Executive Summary	06
<b>Chapter – I – Academic Journals &amp; its Scientific Value</b>	
1.1 Introduction	15
1.2 What is a journal?	15
1.3 Changing trends in journal publishing: From print to electronic and Open Access	16
1.4 What is scientific value of a journal?	17
1.5 Global indicators of measuring scientific values of journal publishing	
1.5.1 Regularity and promptness in publication	18
1.5.2 Peer review	18
1.5.3 Citation & impact	20
Journal Citation Report	21
SNIP & SJR	23
Google Scholar	23
1.5.4 Predatory impact factor	23
1.6 Journal selection process of various international databases	24
1.7 Objective of the present study	26
1.8 Scope of the study	26
1.8.1 Extension of the fields physics, chemistry and biology	27
1.8.2 Categories of scientific publications included	27
1.9 Data & Methods	27
1.10 Limitations of the study	30
<b>Chapter II – Measuring Scientific Value of Indian Journals through Journal Quality Indicator of India (JQII)</b>	
2.1 Scientific publishing in India	31
2.2 Need of knowing the 'Scientific Value' of Indian journals	31
2.3 Developing a new system 'Journal Quality Indicator of India' for measuring scientific value	32
2.3 Criteria & Scoring techniques in JQII	33
2.4 Functionality of a newly designed website of the JQII	41
2.5 Strategy to determine journal quality in JQII	44
<b>Chapter – III – Status of Physics-Chemistry-Biology (PCB) Journals in India</b>	
3.1 Growth of physics, chemistry and biology journals in India	46
3.2 Regularity and promptness of publishing	47
3.3 Authority & publishing format of PCB journals	47
3.4 Availability & pricing issues of journal publishing	49
3.5 Quantity of articles in Open and Non-open Access PCB journals	51
3.6 Review policies of PCB Journals	52
3.7 Citation and indexing-abstracting coverage of PCB journals	54
3.8 Subsidiary issues of journal publishing	55
<b>Chapter – IV – Findings, Conclusion &amp; Recommendations</b>	
4.1 Findings of the study	57
4.2 Recommendations towards improvement	61
4.3 Suggestions for further study	65
<b>5. References</b>	67
Appendix I – Bibliographic Databases coverage of indentified PCB journals	70
Appendix II- Questionnaire for prospective authors	78
Appendix III- Questionnaire for prospective editors	80
Appendix IV – Grouping of bibliographic databases under various category	82
Appendix V: - Selected PCB Journals and calculated score through JQII	83
Appendix VI: Glossary of important terms	87