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Grey Literature Citation in Doctoral Theses of Library and Information Science Awarded by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 2015 to 2019.

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ABSTRACT

Grey literature has an important role in information transferring process. This study evaluates the citations of grey literature by the researchers to analyze the citations of grey literature forms in doctoral theses which are awarded by the Department of Library and Information Science by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during the period from 2015 to 2019. For analyzing the data, average, percentage distributions (presented in charts, tables etc.).The study reveals that Grey Literature is the most utilized as reference materials in the theses. The highest number of Grey Literature cited in the year 2016, 140 citations per thesis and lowest number of Grey Literature cited in the year 2019, 79 citations per thesis. The result of this study may serve the user study in respect of collection development and user services designing in libraries.

Keywords: *Citation Analysis, Grey Literature, Characteristics of grey literatures, Types of grey literatures references.*

Introduction: Grey literatures refer to the primary sources of information. This is unpublished and non-distributed in the usual manner. It is also difficult to obtain. Various forms of Grey literatures are conference proceedings, dissertations or Theses, research reports, online documents, oral presentations, technical reports, and working papers etc. Producers of Grey literatures are Government and non-Government agencies, national and international agencies,

professional and non-professionals associations and also human resources. The present study is a citation analysis of grey literatures. Citation analysis is one of the thrust areas of research in Library and Information Science. It helps to provide information for improving the quality of research output. For analyzing the data, Frequency, percentage distributions (presented in charts, tables etc.) are used. The study reveals that Grey Literature is the most utilized reference materials in the theses in library and information sciences. The highest number of grey literature cited in the year 2016, 140 citations per thesis and lowest number of grey literature cited in the year 2019, 79 citations per thesis. The result of this study may serve the user study in respect of collection development and user services designing in libraries.

1. **What is Grey Literature?** The term “grey” in “Grey literature” has some connection to brain’s ‘grey matter’, which is highly significant in research work. It is synonymous to Grey literature, fugitive literature, unpublished literature, non-conventional literature, nontraditional publications and ephemeral publications. According to Harrod’s Librarian’s Glossary and Reference Book, grey literature is a ‘semi published material’ or not formally published and consequently difficult to trace bibliographically.’ In house publications are also called as Grey literature.
2. **Review of Literature:** Various studies are carried out on the citation analysis before this study. Here some studies have been reviewed on the present topics. Ruth Cordes, (Cordes, 2004) stated in the paper entitled “Is grey literature over used? Using citation analysis to measure the impact of GESAMP’ that the grey literature is an important source of information, even if great variability in its use and intensity has been observed among the different disciplinary fields. Mithu Anjali Gayan and Sanjay Kumar Singh (Gaan & Singh,2018) analyzed the authorship pattern, year wise citations, country wise citations and publisher wise citations. Venugopal D Haije and Mulla K R (Haije & Mulla, 2018) analyzed the citations of grey literatures and grey literature forms. Frequency and percentage are used to analyzed to analyze the collected data. The highest number of Grey Literature cited in the year 2016 is 237(26.99%) and lowest number of Grey Literature cited in the year 2012-13 is 207(23.57%). On the other hand, Kuburat Oluwakemi Towolawi (Towolawi, 2018) shared the experience regarding the acquisition

and management of grey literature. It also focused on the nature and academic impact of grey literature. From the reviews of literature on the citation of grey literatures reveals that there were no study on grey literature citation in library and information science. So, this study is carried out.

3. **Objectives of the Study:** The objectives of the study are in the following :

- To know the number of theses awarded by the Department of Library and Information Science by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad;
- To identify the types of grey literature in the references of theses used by researchers in Library and Information Science;
- To evaluate the actual use of grey literature in the field of Library and Information Science;
- To explore the citations trend of grey literature in the theses.

4. **Scope of the study:** The study is limited only in the following area:

- 28 theses are analyzed which has been awarded by the Department of Library and Information Science by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad;
- This study is limited on the discovering and scanning of bibliographic references of Doctoral theses;
- Time period of this study is confined only in five years, i.e. from 2015 to 2019.

5. **Methodology:** To evaluate the actual use of Grey Literature by the end users, the study examines the references of the theses. Data have been collected from Shodhganga by downloading PDF file chapter wise from the portal of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad collections. There are 28 Doctoral theses awarded by the Department of Library and Information Science, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during 2015-2019. Citations are scattered at the end of the each chapters and also are appended separately at end of the theses in the form of

bibliography. All bibliographic references of the theses are analyzed first and then studied the used grey literature by the researchers in their theses. Year wise, type wise distribution and growth pattern of the use of grey literature are studied here. The collected raw data have been classified and stored in MS-Excel format for tabulating and presenting. The results are shown in graphical and tabular format. Each single reference is separately analyzed to see how many references are related to Grey literature sources. The number of electronic grey literatures out of total grey literature is also calculated here with simple percentage, average and with cumulative percentage.

6. Data Analysis and discussions:

Table 1 List of awarded theses in Library and Information Science by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 2015-2019.

Sl.No.	Name of the Researchers	Title of the Theses	Name of the Supervisors	Awarded Date
1.	Sugriv Gyanobarao Kshirsagar	Application of information technology in the deemed university libraries in Maharashtra: An evaluative study	D.K.Veer	08.01.2015
2.	Sajay Sahebrao Waghmore	Knowledge mapping of DRTC annual seminar publications : A Scientometric Study	Shashank S. Sonwane	06.07.2015
3.	Vandana Sheshrao Jadhav	Citation analysis of Ph.D theses on physical sciences submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	Vaishali S. Khaparde	24.08.2015
4.	Bhupendra Uttam Bansod	Bibliographic control of Marathi publications	Shashank S. Sonwane	21.08.2015
5.	Sanjay Laxman Bhedekar	Authorship pattern amongst library and information	Shashank S. Sonwane	22.12.2015

		professionals		
6.	Santosh Nachindra Shelke	International E-Journals in library & information science : A Scientometric Study	Vaishali S. Khaparde	22.12.2015
7.	Vijay Hanmantrao Khillare	A Comparative study of citation analysis among five online journals in library and information science : A Scientometric Study	Vaishali S. Khaparde	26.12.2015
8.	Hemraj Duryodhan Chopkar	Mapping of periodicals in biological sciences : A study	Vaishali S. Khaparde	05.01.2016
9.	Sudesh Nasiket Dongare	Citation analysis of Current science journals	Vaishali S. Khaparde	31.03.2016
10.	S.N.Patil	Krushn mukund ugbalankar yanche granthalya chalvalitil yogdan ek abhyas	S.P. Chavan	04.04.2016
11.	Dattatraya T. Kalbande	Networking and resource sharing of the agricultural college libraries in Maharashtra : A study	S.P.Chavan	04.04.2016
12.	Kalyan N Kumbhar	Security audit of college libraries affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	D.K.Veer	17.05.2016
13.	Shivaji Annasaheb Darandale	Ahmednagar jilhyatil dharmik sthale lokabhimukh honyamagil mahiti sadhanachi bhumika 1950te 2010	S.P.Chavan	29.06.2016

14.	R.H. Throve	Maharashtratil samajonik granthalayache bhavivya	S.P.Chavan	30.07.2016
15.	Amol B Sawai	Research productivity of academic libraries affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad : A Scientometric study	S.P.Chavan	09.08.2016
16.	Sujata Kariappa Pratapure	Citation analysis of Annals of library and information studies	Vaishali S. Khaparde	07.09.2016
17.	Vinod omkar Gaikwad	Scientometric study of journal of antimicrobial chemotherapy	Shashank S. Sonwane	26.09.2016
18.	Vishakha D. Chavan	Professional attitude of librarians towards ICT a study of college libraries affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	S.P.Chavan	01.12.2016
19.	Vishakha Bhagwanrao Ranveer	Citation analysis of Ph.D theses on mathematics and statistics submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	Vaishali S. Khaparde	13.02.2017
20.	Mohd. Faizuddin Mohd. Riyazuddin Siddique	Use of online public catalogue of selected university libraries of Maharashtra: A study	Vaishali S. Khaparde	17.02.2017
21.	Sham Tukaram	A critical analysis of	H.G. Vidhate &	29.05.2017

	Sangale	information technology usage in non grant college libraries of Maharashtra state with special reference to non grant college libraries of Maharashtra region	D.K.Veer	
22.	Vaijinath S. Birangal	Productivity pattern of DESIDOC journal of library and information technology a study of bimonthly journal of DRDO delhi 1981 to 2015	Shivshanker Ghumre	01.07.2017
23.	Govind Adhe	Citation analysis of theses in computer science awarded by university in Maharashtra state	Dinanath Namdev Pawar	29.09.2017
24.	Hitendra Janardan Patil	Information seeking habits of software professionals in western India	Daya T. Patil	30.12.2017
25.	Ganesh Suryakant Khemade	Agricultural information needs of the farmers in Maharashtra region : A study	Vikram U. Dahifale	11.06.2018
26.	H.G. Hosamani	Data conversion and data transfer of Indian university libraries : A study	A.A. Vaishnav	08.10.2018
27.	Sandip Bhikaji Khandare	Mapping of intellectual assests in economics research in Dr. Babasaheb Ambedkar Marathwada University, Aurangabad: A scientometric study	Shashank S. Sonwane	04.10.2019
28.	Sandipan Dattatray	Goa rajytil mahavidyalay in	Veena Kamble	14.12.2019

	Mundhe	granthalayatil seva v savidhanchaabhyas	(Salampure)	
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Table 1 shows that total 28 theses are awarded by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during the period 2015 to 2019. The highest numbers of theses, i.e. 11 are awarded in 2016 by the University. 7 theses are awarded in 2015 and 6 theses are awarded in 2017. 2 theses are awarded in the following year 2018 and 2019 by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Table 2 Year wise Citations of Bibliographic forms in the theses awarded by Dr. Babasaheb Ambedkar Marathwada University (2015-2019).

Awarded Year	Number of awarded theses	Citations of Traditional Grey Literatures	Citations of Electronic Grey Literatures	Citations of Journals	Citations of Books
2015	07	92	205	190	89
2016	11	140	230	298	121
2017	06	122	187	167	110
2018	02	87	98	123	79
2019	02	79	85	148	86
Citations	28	520(19.00%)	805(29.42%)	926(33.84%)	485(17.72%)

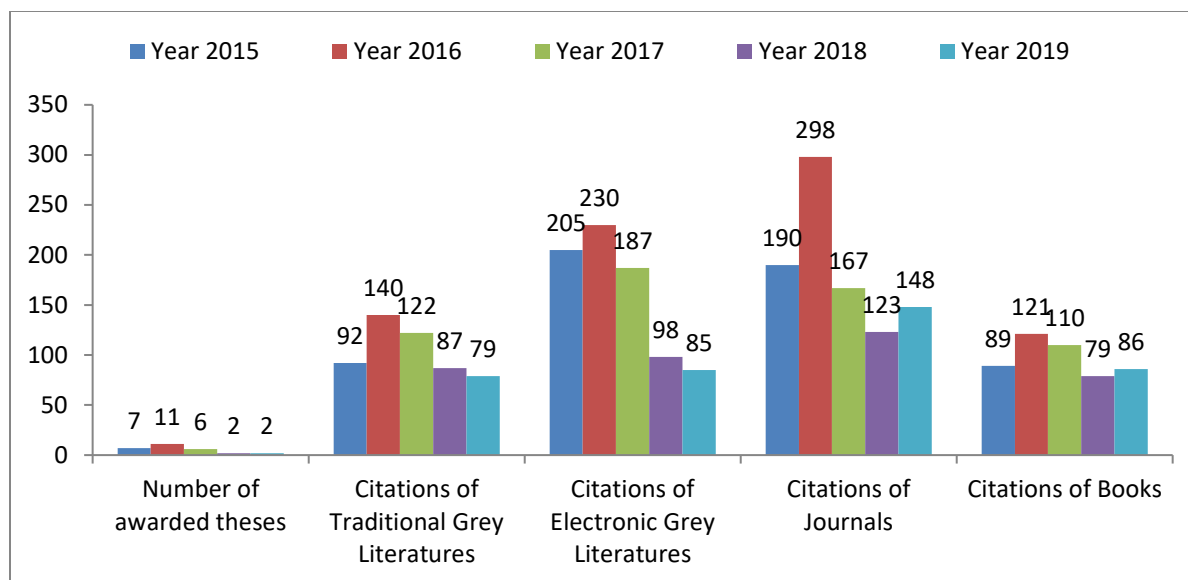


Table 2 Fig.1, explore the year wise citations of bibliographic formats in the theses awarded by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. Out of total 2736 citations, the distributions of bibliographic formats are: cited traditional grey literature 520 citations ((19.00%), cited electronic grey literatures 805 citations (29.42%), cited journals 926 citations (33.84%) and cited books 485 citations (17.72%). From this table; it is clear that the grey literature citations are 1325 citations out of 2736 citations, i.e. 48.42% which indicates that the grey literatures play a vital role in enhancing research and development.

Table 3 Year wise citations of Traditional Grey Literature in the theses (2015-2019).

Forms of Trad. Grey Literature	Years				
	2015	2016	2017	2018	2019
Total number of citations	92	140	122	87	79
Number of theses year wise	07	11	06	02	02
Average citations year wise	13.14	12.72	20.33	43.20	39.50

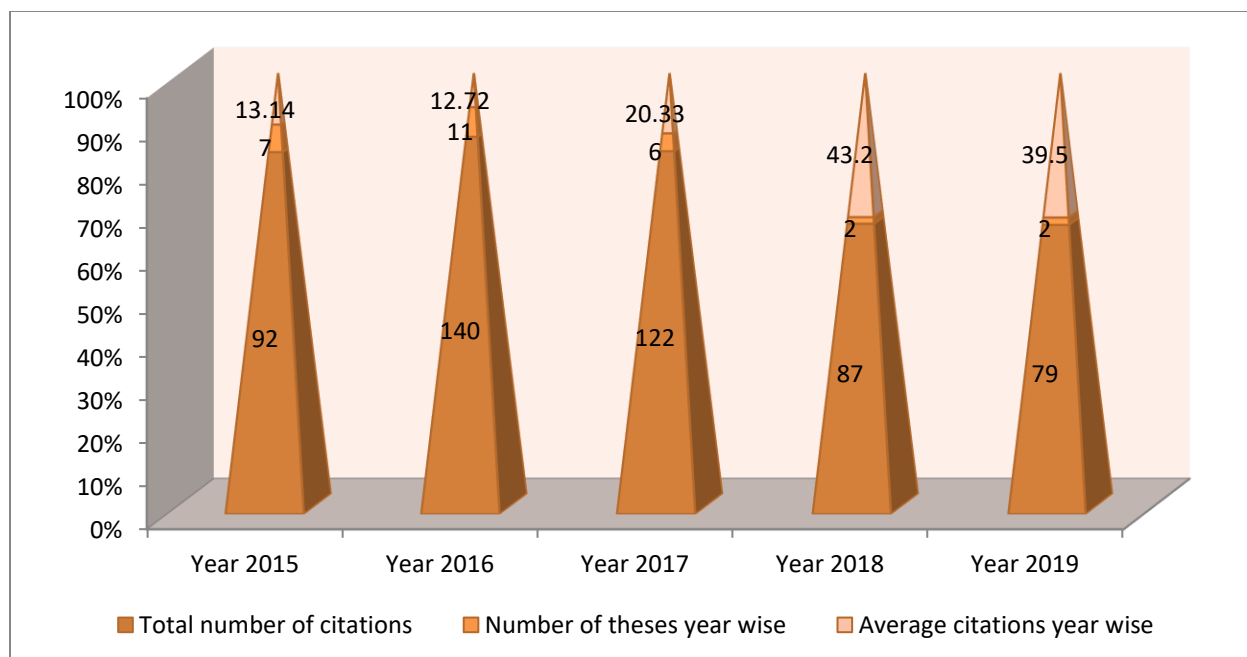


Table 3 and Fig. 2, exposes the year wise citations of traditional grey literatures in the theses awarded by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. Out of total 520 citations, the average citations of traditional grey literatures are: 13.14 in 2015, 12.72 in 2016, 20.33 in 2017, 43.20 in 2018 and 39.50 in 2019. From this table, it is clear that the traditional grey literature citations are decreasing day to day.

Table 4 Year wise Citations of the Electronic Grey Literature (E-Grey Lit.) in the theses (2015-2019).

Forms of Electronic Grey Literature	Years				
	2015	2016	2017	2018	2019
Citations of E-Grey Lit.	205	230	187	98	85
Number of theses year wise	07	11	06	02	02
Year wise	29.28	20.90	31.16	49	42.50

average E-Grey Lit. Citations					
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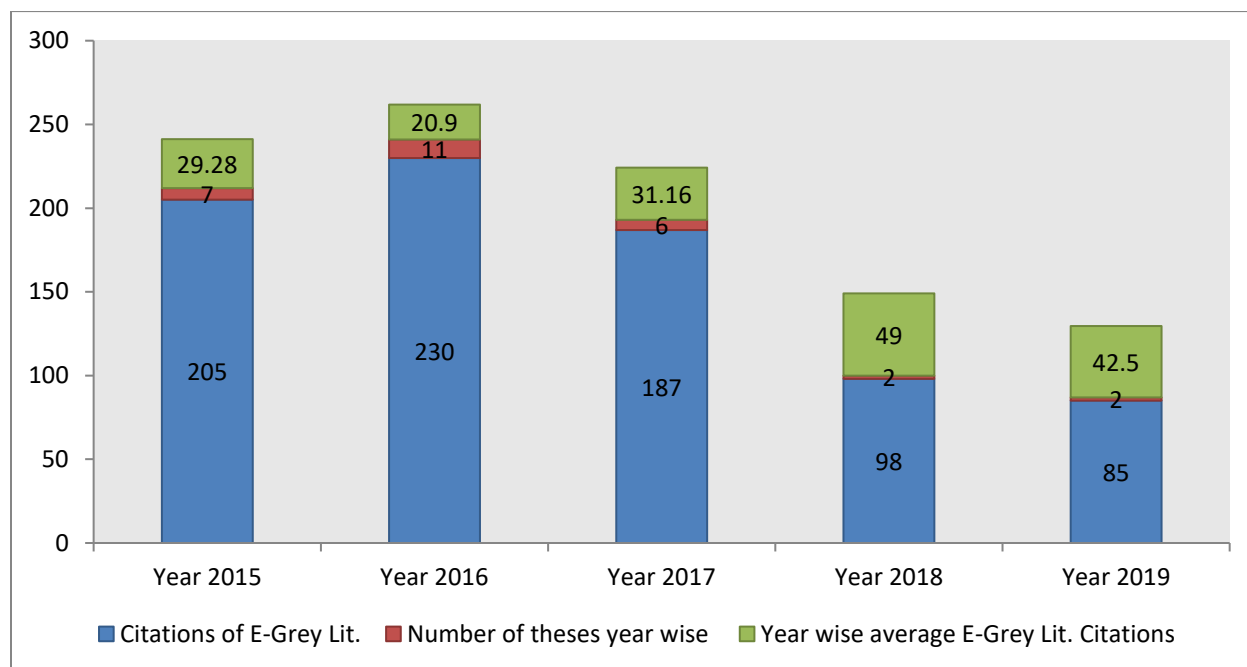


Table 4 and Fig.3, presents the year wise citations of electronic grey literatures in the theses awarded by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. Out of total 805 citations, the average citations of electronic grey literatures are: 29.28 in 2015, 20.90 in 2016, 31.16 in 2017, 49 in 2018 and 42.50 in 2019. From this table, it is clear that the use of electronic grey literature citations are increasing day by day.

Table 5 Form wise distribution of Traditional Grey Literature appearing in the theses.

Forms of Traditional Grey Literatures	Total Citations	Percentage (%)	Cumulative Citations	Cumulative Percentage (%)	Rank
Conference	187	22.58	187	22.58	2
Research and Technical	203	24.51	390	47.09	1

Reports					
Technical Standards	122	14.73	512	61.82	4
Newsletters	43	5.19	555	67.01	6
Lecture notes(Seminar Papers)	186	22.46	741	89.47	3
Theses and Dissertations	87	10.50	828	100.00	5

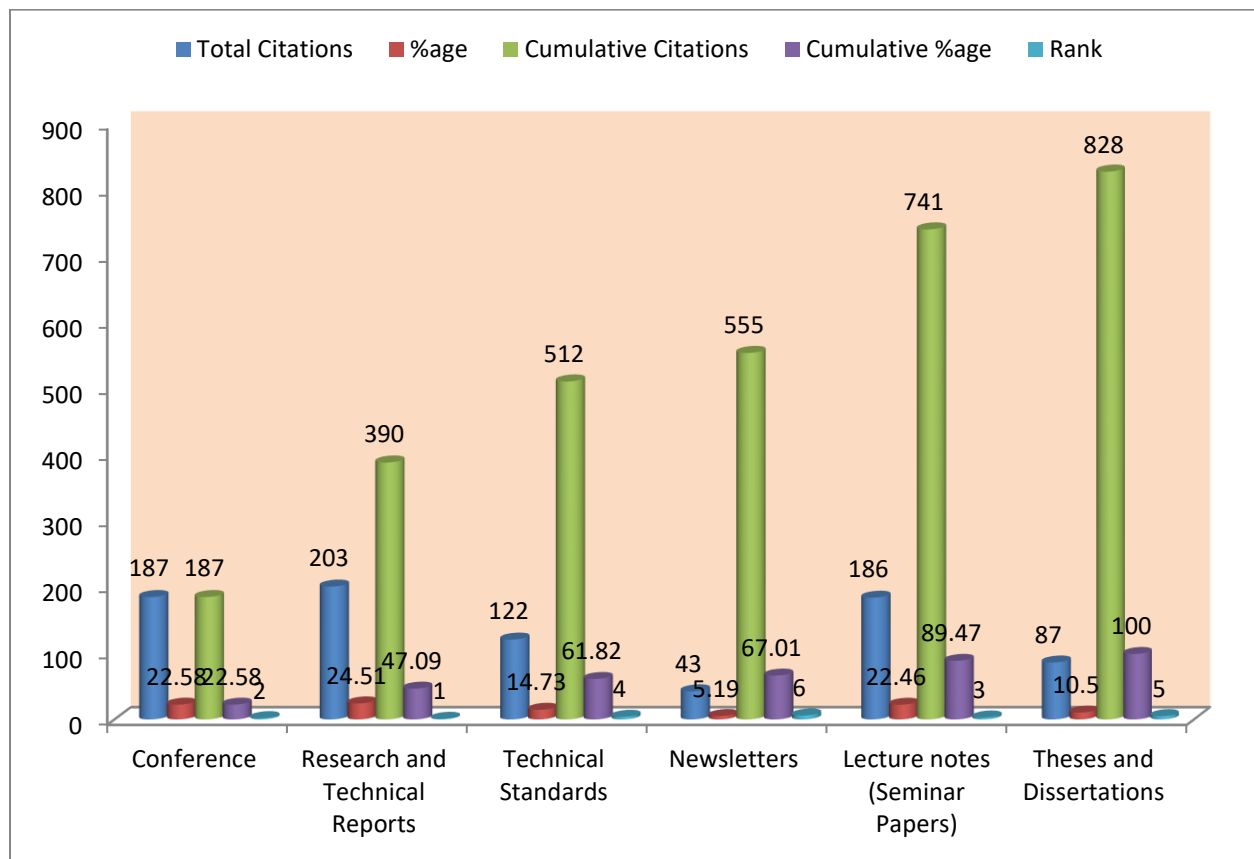


Table 5 and Fig 4, shows the citations of various forms of traditional grey literatures. Among various forms, Government publications are cited mostly, i.e., 203 citations (24.51%). The remaining citations are conference paper 187 citations (22.58%), Seminar papers 186 citations

(22.46%) and 122 citations (14.73%) for Handbooks. From this table, it is clear that the recent grey literature is used more frequently than that of age old grey literatures.

7. Findings: In this study 2736 citations are analyzed from 28 theses in Library and Information Science. Among them, 1325 citations (48.42%) are in grey literatures. Out of 1325 citations, 520 citations (19.00%) are in traditional grey literature forms and 805 citations (60.75%) are from electronic grey forms. On the basis of the study, the following conclusions are drawn:

1. From Table 2, it is clear that the grey literature citations are 1325 citations out of 2736 citations, i.e. 48.42% which indicates that the grey literatures play a vital role in enhancing research and development.
2. Table 3 and Fig2, suggests that the traditional grey literature citations are decreasing day to day.
3. Table 4 and Fig 3, indicates that the use of electronic grey literature citations are increasing day by day.
4. Table 5 and Fig 4, shows that researchers mostly depend on Conference and Seminar papers. The citations of conference papers are 187 citations (22.58%), Seminar papers 186 citations (22.46%). It indicates that the researchers mostly depend on the recently discussed information.

8. Conclusion: It is hoped that this study portray the growth in the production and use of grey literatures in support of teaching, learning and research. This study will help the libraries in selection of useful sources as there in explosion of information and documents in the form of books and journals. The ranking of the forms of grey literatures can be used by librarians and researchers to select grey literatures of greater importance in a particular subject area.

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