

Project Completion Report

**“ANALYSIS OF SELECTED FELLOWSHIPS
AWARDED DURING YEAR 2006-2013
IN THE FIELD OF SCIENCE AND TECHNOLOGY”**

Study Sponsored by

National Science and Technology Management Information System

(NSTMIS)

Department of Science & Technology

Government of India

Implemented by

Dr. Vibhuti

Principal Investigator

Department of Management Studies

Raj Kumar Goel Institute of Technology

Ghaziabad

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PREFACE

In the present scenario excellence in the field of research has become a necessity. This excellence in the field of research in Science & Technology requires excellent research infrastructure, highly skilled and trained manpower and adequate financial resources. With this aim Government of India has launched many schemes in the form of fellowships by various government funding bodies such as DST & DBT. The objective of this report is to research specifically whether the existing fellowships need any modification in funding pattern, tenure, eligibility criteria and in any other features associated with the fellowship.

This report broadly covers those fellowships of Department of Science & Technology and Department of Biotechnology which are targeting the Scientists and Engineers settled abroad and want to come back to India and Indian scientists who are working in India. Besides only those fellowships have been targeted where annual grant is Rs.3 Lakh and above. The fellowships studied in this report are (i) Ramanujan Fellowship (ii) Ramalingaswamy Fellowship (iii) J.C Bose Fellowship and (iv) Tata Innovative Fellowship.

The observations of the research provide interesting insights and useful information about various aspects of fellowships under study to DST and DBT.

Dr. Vibhuti- Principal Investigator
Mr.Pankaj Singh Yadav- Co-Investigator
Mr.Vipul Goel-Co-Investigator

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Dr. Vibhuti- Principal Investigator
Mr. Pankaj Singh Yadav- Co-Investigator
Mr. Vipul Goel- Co-Investigator

EXECUTIVE SUMMARY

1. A study on the “**Analysis of selected fellowships awarded during 2006-2013 in the field of S&T**” was undertaken by the Principal Investigator in the sponsored mode from NSTMIS Division of the Department of Science & Technology, Government of India.
2. For the progress of any country innovation and creativity are the basic elements. Therefore there is a need of research in the area of Science & Technology. Excellence in the area of research requires excellent research infrastructure , highly skilled and trained manpower and adequate financial resources.
3. These elements of research in India are primarily supported by the Government of India through various funding agencies such as Department of Science & Technology and Department of Biotechnology. Fellowships encourage Scientists to carry forward research.
4. The fellowships under consideration for the present study were Ramanujan fellowship and J.C Bose fellowship of Department of Science & Technology, Ramalingaswamy fellowship and Tata Innovative fellowship of Department of Biotechnology.
5. This study has been taken up keeping in view that whether the existing fellowships need any modifications in funding pattern, amount of fellowship, tenure of fellowship, age limit, eligibility criteria of fellowship and in any other features associated with the fellowship .
6. The study was undertaken through the Structured Questionnaire and Personal Interview. The data of the fellow recipients was collected from Primary source i.e Department of Science & Technology and Department of Biotechnology and from Secondary Source such as Websites of various institutes and search engines.

7. The data received from various sources was categorized discipline-wise, geographic location-wise and year-wise .The questionnaire was floated among the fellow recipients.
8. The responses received from Questionnaire and Personal Interview were Quantitatively and Qualitatively analysed. The major findings of the study are :
 - a. The amount of research/contingency grant should vary on the basis of area of research as in many areas the amount of grant is not sufficient to buy equipments and models.
 - b. The eligibility criteria for the fellowship recipient is satisfactory.
 - c. The age limit of the fellowship recipients is satisfactory .However few fellows are of the opinion that in exceptional cases where researches are for human society, age limit should be extended e.g researches in the area of Medical Sciences.
 - d. Tenure of the fellowship should be extended depending on the area of research especially in the area of biological sciences.
 - e. E-media i.e E-advertisement and Websites of funding bodies are more effective in disseminating information related to fellowships.
 - f. There should be a dialogue between the funding agencies and the host institute on the issue of giving a permanent position to fellows after their satisfactory performance as they are relocating themselves from other country to India and after completion of their fellowship tenure,they will be jobless.However funding agencies are of the opinion that giving a permanent position is the policy matter of host institute.
 - g. Funding agencies are not able to take the decisions on time regarding the nominations of the fellows for the fellowship and release of fund as in many cases applications are either incomplete or some information/documents are missing.

- h.** Annual Conclave for different disciplines should be organized separately and information related to conclave should be timely disseminated to the fellows.
- i.** The yearly assessment meeting for assessing the performance of the recipients of fellowship should have experts from all fields of Science & Technology.
- j.** Information related to utilization of money should be clearly mentioned on the information bulletin of the website of funding agencies so that utilization certificate can be prepared properly.

Fellowship-wise Data Analysis at a glance

Sl. No.	Determinants	Ramanujan Fellowship*	Ramalingaswamy Fellowship*	Tata Innovative Fellowship**	J C Bose Fellowship**
1	Source of Information Related To Fellowship	Referred by Some One(55%)	Website of Department of Biotechnology (47.1%)	Website of Department of Biotechnology (80%)	Referred by Some One (48.3%)
2	Information is Effectively Available	Yes (87.5%)	Yes (88.2%)	Yes (100%)	Yes (100%)
3	Method of Dissemination of Information Regarding Nomination of Fellowship	E-Media(77.5%)	E-Media (70.6%)	Print Media (66.7%)	E-Media (75.9%)
4	Amount of Fellowship Adequate To Attract The Scientist	Not Adequate(62.5%)	Not Adequate (61.8%)	Not Adequate(66.7%)	Adequate (69%)
5	Observations related to :				
a.	Eligibility Criteria For Nomination For The Grant Of Fellowship	Satisfied(82.5%)	Satisfied (88.2%)	Satisfied (100%)	Satisfied (86.2%)
b.	Restriction On Applicant Age Limit	Satisfied(82.5%)	Satisfied (88.2%)	Satisfied (100%)	Satisfied (79.3%)
6	Observations related to grants given for various heads :				
a.	View About Personal Grant	Satisfied(55%)	Satisfied (64.7%)	Satisfied (86.7%)	Satisfied (82.8%)
b.	View about Research Grant	Satisfied(55%)	Not Satisfied (64.7%)	Not Satisfied (60%)	Satisfied (72.4%)
c.	View about House Rent Allowance	Not Applicable(50%)	Not Satisfied (61.8%)	Not Applicable (100%)	Not Applicable (79.3%)
7	Suggestion for Addition/Modification Of Grant	Yes(65%)	Yes (76.5%)	No (53.3%)	No (100%)
8	Comment on :				
a.	Getting Information From The DST	Time Consuming(72.5%)	Easy (64.7%)	Easy (86.7%)	Easy (75.9%)
b.	Clarity In Performa For Application	Yes (80%)	Yes (85.3%)	Yes (86.7%)	Yes (93.1%)
c.	Time Taken In Decision Making By Funding Agencies	More than 6 Months(42.5%)	3-6 Months (58.8%)	3-6 Months (60%)	3-6 Months (51.7%)
d.	Time Taken in Receiving Funds After Approval	Satisfied(57.5%)	Satisfied (64.7%)	Satisfied (86.7%)	Long (51.7%)

9	Reason For Selecting The Respective Host Institute For Research Work	State of the Art facilities (37.5%)	Position in Institute (29.4%)	NA	NA
10	Observations related to various facilities of host institute :				
a.	View towards Workplace of host Institute	Satisfied (55%)	Satisfied (82.4%)	NA	NA
b.	View Towards Host Institute Equipments	Satisfied (50%)	Satisfied (52.9%)	NA	NA
c.	Receptiveness By Employees Of Host Institute	Excellent (45%)	Satisfied (55.9%)	NA	NA
d.	View Towards Interpersonal Relations in Host Institute	Satisfied (55%)	Satisfied (44.1%)	NA	NA
e.	View Towards Future Prospects Of Employment in Host Institute	Not Satisfied (65%)	Not Satisfied (67.6%)	NA	NA
f.	View Towards Peer Group Interactions in Host Institute	Not Satisfied (52.5%)	Not Satisfied (50%)	NA	NA
g.	View Towards Secretarial Assistance/Manpower of Host Institute	Not Satisfied (47.5%)	Not Satisfied (52.9%)	NA	NA
11	Observations on :				
a.	View Towards Procedure For Recruitment Of Manpower For Their Project	Flexible & Convenient (80%)	Flexible & Convenient (70.6%)	Flexible & Convenient (80%)	Flexible & Convenient (93.1%)
b.	View Towards procedure For Procurement Of Equipment And Consumables	Flexible & Convenient (82.5%)	Flexible & Convenient (58.8%)	Flexible & Convenient (80%)	Flexible & Convenient (86.2%)
c.	View Towards tenure For Which Fellowships is Given	Adequate (67.5%)	Adequate (70.6%)	Adequate (53.3%)	Adequate (89.7%)
NA -Not Applicable					
* Ramanujan Fellowship Ramalingaswamy Fellowship		For attracting Scientists from overseas primarily		** Tata Innovative Fellowship J.C Bose Fellowship	For Scientists working in India

INTRODUCTION

In this era of liberalization, privatization and globalization, innovation and creativity are the basic elements for sustenance in the competitive market. Therefore, excellence in research in every field has become a necessity.

Excellence in any field requires excellent research infrastructure, highly skilled and trained manpower and adequate financial resources. In India research support in S&T is primarily provided by the Government . The statistics brought out by the Department of Science & Technology, Government of India indicates that about 75% of the research funds are provided by the Government. The manpower devoted to R&D is also heavily drawn from the public funded institutions. At aggregate level S&T manpower devoted to R&D in our country per 1000 population is far below as compared to Korea and China.

Government has been, from time to time, launching various schemes and fellowships in order to attract the young and retired scientists to engage themselves in this novel area of research and also to attract talented NRI Scientists & Researchers to work in lead institutions across the country. There are various scientific departments such as DST, DBT, DSIR, ISRO, DRDO and Scientific agencies like CSIR, ICMR, ICAR in the Government and private foundations like Birla, Modi, Ranbaxy which have launched fellowships for this purpose in various fields including S&T. These fellowships/grants are provided for specific purpose(s) and are open to Scientists and Technologists, from academic/research institutions, registered societies including the retired scientists. Each fellowship is governed by specified terms and conditions.

Some of the prominent fellowships are :

1. JC Bose National Fellowship : The fellowship is meant to recognize active scientists and engineers for their outstanding performance and contributions. This fellowship was started in the year 2006 by the Department of Science & Technology . The fellowship is open to Indian Nationals residing in India, with upper age limit of 68 years for completion of fellowship. The applicant should possess a higher degree or equivalent: namely Ph.D. in Science/Engineering, Masters in Engineering or Technology/MD in Medicine, etc. and must have carried out several years of work in the specific area. The candidate must have a regular position in an Institute /Organization and should be engaged in research. If he /she is availing any other fellowship, he/she will have to opt for only one of the fellowships. The duration of the fellowship will be five years. The value of the fellowship is Rs. 25,000 per month in addition to regular income. In addition, each Fellow receives a contingency of Rs. 10.00 lakh per annum for conferences and other expenses.

2. Ramanujan Fellowship: This fellowship was started in the year 2006 by Department of Science & Technology .The fellowship is meant for brilliant scientists and engineers from all over the world to take up scientific research positions in India, especially those scientists who want to return to India from abroad. The fellowship is open to brilliant scientists and engineers from all over the world who are below the age of 60 years. The applicant should possess a higher degree or equivalent, such as Ph.D. in Science/Engineering, Masters in Engineering or Technology/MD in Medicine, etc. and have adequate professional experience. The candidate has to opt for either this fellowship or his present position/fellowship, if any. The duration of the fellowship is for five years. The value of the fellowship is Rs.85,000/- per month. Each

Fellow will, in addition, receive a research grant of Rs.7.00 lakh per annum for conferences and other expenses.

3. **Ramalingaswamy Re-entry Fellowship:** This fellowship was started by Department of Biotechnology in the year 2007 . Under Ramalingaswamy Re-entry fellowship a grant of Rs. 85,000/- per month and a contingency grant of Rs. 10 lakhs Per annum for the 1st year , Rs 7.50 lakhs for the 2nd year and Rs 5.00 lakhs for subsequent 3 years is given. Nearly 154 fellowships were granted during the reference period 2006-13 . This scheme is instituted for Indian Nationals who are working overseas in the various fields of biotechnology and life sciences.

4. **Tata Innovation Fellowship :** This fellowship was also started by Department of Biotechnology in the year 2007 .The fellowship is awarded for a duration of three years. A fellowship of Rs. 25,000/- per month plus a Contingency grant of Rs.6 Lakh per annum is awarded. During the reference period 2006-13 nearly 39 fellowships were awarded. This fellowship is open to all Indian Nationals residing in India. This scheme was instituted by the Department of Biotechnology, Ministry of Science & Technology, Govt. of India to recognize and reward scientists with outstanding track record in biological sciences and a deep commitment to find innovative solutions to major problems in healthcare, agriculture and other areas related to life sciences and biotechnology.

This proposal is aimed to :

Research specifically whether the existing fellowships need any modifications in

- Funding pattern
- Amount of grant given for the fellowship
- Tenure of the fellowship
- Eligibility Criteria of the applicant and
- In any other feature associated with the fellowships.

Limitations of the Study :

The following points may be kept in view while going through the analysis of this report:

1. Since the period of study for this report was 2006-2013 , the PIs of some of the projects have either left the institutions or the country so could not be reached as their present contact details were not available.
2. In some of the projects PIs were Directors of the institutes itself therefore it was not easy to make them fill the questionnaire .
3. Availability of time was the biggest problem as all the respondents were busy with either their academic or administrative work.
4. Since the fellowships are given to the scientists working in institutions in India and abroad therefore geographic area is a biggest limitation.

As per the discussion held in the Local Project Advisory Committee meeting, we tried to gather information related to fellowships of some selected countries. After studying these fellowships we have following observations :

1. Most of the fellowships are primarily at student level however there are fellowships for Senior scientists also.
2. In most of the fellowships, age limit is 45 years and tenure is also not very long. The tenure is only limited upto a year in most of the cases..
3. Many of the fellowships clearly specify that applicants should have firm position in their home countries and should return to their countries on completion of their fellowship.
4. Almost all the fellowships have an added benefit of Overseas travel and health insurance.
5. Few fellowships invite not only academicians for doing research but also scientists working in industry for the fellowship.
6. Publication cost for research paper and book publication is also a part of the grant in some fellowships which motivates fellows for research papers and book writing.

The brief detail of some of the fellowships being granted by Malaysia, Europe, China, Brazil, Canada and Japan are as follows :

Fellowships executing in other countries



S.No.	Name	Objective	Eligibility	Age Limit	Tenure	Nature of Support
1	TWAS-UPM Postdoctoral Fellowship Programme	For young scientists from developing countries (other than Malaysia) who wish to pursue advanced research in the natural sciences.	<ul style="list-style-type: none"> For nationals of a developing country (other than Malaysia) PhD degree in a field of the natural sciences Certificate of proficiency in English, if medium of education was not English Provide evidence that s/he will return to her/his home country on completion of the fellowship; Can not take up other assignments during the period of her/his fellowship Be financially responsible for any accompanying family members. 	Not Specified	Minimum 6 months and maximum 12 months	UPM will provide a standard monthly allowance which should be used to cover living costs, such as accommodation and food.
2	TWAS-UPM Fellowships for Visiting Scholars in Malaysia	For scientists from developing countries (other than Malaysia) who wish to pursue advanced research in natural sciences.	<ul style="list-style-type: none"> Maximum age of 55 years on 31 December of the application year. Be nationals of a developing country (other than Malaysia). Must not hold any visa for temporary or permanent residency in Malaysia or any developed country. Provide evidence of proficiency in English; Be financially responsible for any accompanying family member. 	55yrs	Minimum 1 month and maximum 3 months	UPM will provide a standard monthly allowance which should be used to cover living costs, such as accommodation, food and health insurance. The monthly stipend will not be convertible into foreign currency.
3	Hermes Fellowships	The University is investing £2m over four years in a new internal fellowship programme to support outreach, innovation and business engagement for achieving economic and/or social benefit to the UK.	Fellowships are aimed at post-doctoral research assistants, researchers and academic members of staff on all campuses and will fund a range of activities, including buying out time to focus on specific research areas.	Not Specified	Not Specified	The University has invested over £2m over the past four years

4	UNU-IIGH Postdoctoral Fellowship	<ul style="list-style-type: none"> to give young scholars an opportunity to participate in and contribute to the research activities of UNU-IIGH on pressing global health issues to enable young scholars, particularly those from developing countries, to conduct postdoctoral-level research in an international academic environment 	<p>Applicants must hold a recent PhD (or at least have successfully defended their PhD thesis prior to the date of commencement of the fellowship) in an area closely related to the three thematic research areas of UNU-IIGH:</p> <ul style="list-style-type: none"> Governance for Global Health, Planetary Change and Health, and Universal Health Coverage. <p>Fellows will be required to work on an assigned project (or projects), draft manuscripts for publication, and participate in the academic activities of the Institute (including regular in-house discussions and seminars). Research topics and proposals must be relevant to one of the above-three UNU-IIGH thematic research areas.</p>	Not Specified	<p>an initial period of 12 months (with the possibility of renewal for an additional 12 months),</p>	Remunerated by a monthly stipend.
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> Europe

1	ERCIM Alain Bensoussan fellowship programme	<p>This fellowship encourages not only researchers from academic institutions to apply, but also scientists working in industry</p>	<ol style="list-style-type: none"> Applicant have obtained a PhD degree during the last 8 years (prior to the application deadline) or be in the last year of the thesis work with an outstanding academic record be fluent in English be discharged or get deferment from military service the fellowship is restricted to two terms (one reselection possible) have completed the PhD before starting the grant (a proof will be requested before your arrival). 	Not Specified	12 Months	<p>The type of contract and the monthly allowance (for stipends) or salary (for working contracts) depends on the hosting institute. The fellow is covered by a personal health insurance provided by Campus France the cost of which is paid by ERCIM-EEIG. Costs for travelling to and from the host institutions will be reimbursed, No moving expenses are allocated. Fellows have to spend at least a one-week visit to another ERCIM member institute. The Fellow can spend 100 euros per month to attend and to submit papers to scientific conferences.</p>
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2	Physician Scientist fellowship	This initiative aims at enabling physician-scientists to take a leave from their clinical duties and to spend 6 or 12 months in a research laboratory.	<ol style="list-style-type: none"> 1. Applicant must be a registered EASL member 2. Applicant may still be in training or already hold a permanent position 3. Research may be pursued in the applicant's home or an external hosting institution 4. No restriction on the applicant's age or nationality 5. Applicant should be working in a European institution 	No restriction	6 Months or 12 Months	<ol style="list-style-type: none"> 1. 6-month research fellowship of 20,000€ 2. 12-month research fellowship of 40,000€
3	EHRA Academic Research fellowship programme	The purpose of this programme is to promote a potential career within academic electrophysiology by providing research supervision and guidance towards various research fields, which would suit a candidate looking for a period of high quality supervised research. The Fellowship grant is open for both clinical and basic science research.	<ol style="list-style-type: none"> 1. Must have either an MD or Ph.D. as of date of application 2. Must be a member of EHRA as of date of application and the following year. 3. Desirable with some expertise in statistical analyses and modeling, using large datasets 4. A verifying letter from their current institution is required for the following scoring points as specified below : <ol style="list-style-type: none"> a. whether the applicants have potential for an academic/clinical career, b. whether the applicant has a prior research experience, and if so to which extent c. whether the applicant has some expertise in statistical analyses and modeling. 	Applicants should preferably be < 36 years old.	1 Year	EHRA Scientific Initiatives Committee, including a one year grant of 25,000 €. Apart from the award, the Fellowship includes free registration to the EP Europeace / Cardiosim Congresses and the EP EUROPACE Journal. It further includes costs for attending all SIC meetings and 2 visits at research venues at the discretion of the mentors from the Scientific Initiatives Committee.

China

1	UNESCO People's Republic of China (The Great Wall)	To promote international exchanges in the field of education ,culture,communication,scie nce and to enhance friendship among peoples of the world.	(i) Hold at least the equivalent of the Master's Degree/above or the Bachelor's Degree; (ii) English proficiency is required; (iii) Be not more than 45 years of age; and (iv) Be in good health	Be not more than 45 years of age	1 Year	(i) One round trip international travel to and from China (for the first 50 fellows); (ii) a monthly living allowance of CNY 3,000 Yuan for general scholars or CNY 3,500 Yuan for senior scholars will be granted covering meals and Pocket expenses; (iii) Tuition waiver; (iv) accommodation: free university dormitory or accommodation subsidy; If the host university requires students to live on campus, the university will accommodate scholarship students in university dormitory (usually twin room); If host university permits students to live off campus, the university will provide monthly / quarterly accommodation subsidy: undergraduate students /master's students / general scholars: CNY 700 per month; doctoral students / senior scholars: CNY 1000 per month. (v) Comprehensive Medical Insurance** and Protection Scheme for International Students in China.
2	TWAS fellowship for Research & Advance Training	TWAS offers fellowships to young scientists in developing countries to enable them to spend three to 12 months at a research institution in a developing country other than their own. The purpose of these fellowships is to enhance the research capacity of promising scientists, especially those at the beginning of their research career, helping them to foster links for further collaboration.	<ul style="list-style-type: none"> • Offered to young scientists holding at least an MSc or equivalent degree for research and advanced training. • For citizens of a developing country and are employed by a research institution in a developing country. • Institutes of the Chinese Academy of Sciences (CAS), China, are not eligible host institutions under this programme. 	Not Specified	3-12 Months	<ul style="list-style-type: none"> • TWAS covers international low-cost airfare plus a contribution towards subsistence amounting to a maximum of USD 300 per month. • The host institution is expected to provide accommodation and food as well as research facilities.

3	Chinese Culture Research fellowship	It aims at sponsoring foreign experts engaged in the study of Chinese culture to further their understanding of modern China, to deepen their research of the long and profound Chinese culture and tradition so as to enhance the friendship between the Chinese people and people from all over the world.	1). Applicants must be of non-Chinese nationality 2). Applicants must hold professor, associate professor titles, or must have obtained doctoral degree 3). Applicants must hold fixed profession engaging or mainly engaging in Chinese culture research.	under the age of 55.	•Applicant is appropriated to the emergency medical care, institution lodging, living allowance and receive CNY 3000 yuan per month by the institution • for reference materials lump-sum of CNY 750 yuan and for research tour reimbursement of not more than CNY 1000 Yuan according to the research need. Applicants shall bear their own expenses for international trip.
4	CAS Young Scientist fellowship	The aim of the Fellowships is to promote academic exchange and cooperation between CAS institutes and international research institutions and universities, and the development of talented scientists, by attracting young international scientists to conduct a period of cooperative research at CAS institutes.	1. Citizenship of a nation that has formal diplomatic relations with the People's Republic of China. 2. Good communication skills in English or Chinese, able to communicate independently in their place of work. 3. Research scientist applicants should hold a PhD degree, be under the age of 40, and have over five years of research experience and sound academic accomplishments. 5. Post-doctoral applicants should hold a PhD degree and be under the age of 35.	under the age of 35.	1. CAS will provide each recipient with a grant to cover the recipient's salary, daily living allowance, and health insurance, between 150,000 and 250,000 RMB (pre-tax) per year 2. Recipients at the research scientist level, under the age of 40, will receive up to 250,000 RMB per year. Post-doctoral recipients, under the age of 35, will receive up to 150,000 RMB per year. 3. CAS will also provide a round-trip (economy-class) international airfare

5	CAS President's International fellowship Initiative (PIFI)	The PIFI program is available for four categories of international researchers and students: distinguished scientists, visiting scientists, postdoctoral researchers and international PhD students. To support international scientists and postgraduate students to work and study at CAS institutions and strengthen their scientific collaboration with CAS researchers.	1. Be citizens of a country which has diplomatic relations with China 2. Hold a PhD in natural or technological sciences; 3. Have a recommendation from a CAS host researcher; 4. Be able to communicate well with the CAS host researcher;	Under the age of 40	One to Two years	1. CAS offers an annual salary to postdoctoral researchers to cover living expenses and health insurance in China. 2. Each selected awardee will receive a pre-tax stipend of ¥200,000 per year. In addition, the fellowship provides an economy-class round-trip international travel.
6	AAS China & Inner Asia Council (CIAC) Small Grants	Dissertation-level graduate students, junior and independent scholars (including language pedagogues and librarians), and adjunct faculty are especially encouraged to apply, but scholars of all levels are eligible.	Applicants must be current AAS members, but there are no citizenship requirements. Applicants must not have received a CIAC Small Grant within the past three years.	Not Specified	Not Specified	1. For research travel applicants/awards, only airfare, ground transportation (train, airport shuttle, bus, subway, etc.), lodging, and meal expenses are eligible for reimbursement. 2. travel to conferences, including the AAS annual conference 3. translation of an applicant's own work or to pay professional translators to translate materials 4. book subventions and publication costs
7	Henry Luce Foundation/ACLS Program in China Studies Postdoctoral Fellowships	Postdoctoral fellowships support work based on the applicant's research in China that aims to produce a scholarly text in English. A working knowledge of Chinese is required.	1. An applicant must hold a PhD from an institution in the United States or Canada or be a US or Canadian citizen/permanent resident with a PhD from any institution. 2. An applicant who is not a US or Canadian citizen/permanent resident must have an affiliation with a university or college in the United States or Canada. 3. An applicant must hold a PhD degree conferred no earlier than January 1, 2007.	Not Specified	two consecutive semesters of time released from teaching ;	up to \$50,000

Brazil

1	<p>TWAS-CNPq Postgraduate fellowship programme</p>	<p>TWAS-CNPq Postgraduate Fellowships are tenable at research institutions in Brazil for a period of up to four years and are awarded to students from developing countries (other than Brazil) to enable them to pursue all or part (SANDWICH or FULL-TIME) of their research leading towards a PhD degree in the natural sciences.</p>	<ul style="list-style-type: none"> • Hold a university degree in the Natural Sciences (minimum Master's degree). • Have good command of Portuguese and/or Spanish and/or English. • Be a national of a developing country other than Brazil. • Not take up other assignments during the period of her/his fellowship. 	None	Up to 4 years	
2	<p>Science Without Borders Special Visiting Researcher Program</p>	<p>The scholarship program for "Special Visiting Researcher" aims to attract a senior foreign researchers recognized internationally as leadership in priority areas of Science Without Borders program, to conduct projects with Brazilian research groups and visit Brazil for up to three months each year over two to three years.</p>	<p>The fellowships are intended for candidates of proven academic performance and potential and candidates who have been approved for foreign institution of excellence. Postdoctoral candidates will be selected on the basis of their curriculum, the curriculum advisor abroad, the merit of the proposal, the concept of the international research group abroad and ranked in comparison to other applicants.</p>	Not Specified	from 12 to 36 months.	<p>R\$ 14,000.00 (fourteen thousand is, about seven thousand five hundred US dollars) per month for living expenses; -Research grants in maximum amount of R\$ 50,000.00 (fifty thousand is, about twenty eight thousand US dollars) per year; -Flight tickets; -Additional scholarships can be obtained: post-doctoral scholarships in Brazil for the maintenance of the research during the absence of the visiting researcher and PhD scholarships (sandwich) abroad to Brazilian researchers to follow the visiting researcher in his country.</p>
3	<p>Lemann Graduate fellowships for Brazilian Studies</p>	<p>The Lemann Institute of Brazilian Studies offers fellowships to UIUC graduate students doing research about Brazil.</p>	<p>The Lemann Graduate fellowship is open to all UIUC advanced graduate students who are developing research on Brazil. Graduate and professional students at UIUC enrolled in a graduate degree program with a substantial focus on Brazil are strongly encouraged to apply. Students who have held a previous Lemann Graduate Fellowship may re-apply once.</p>	Not Specified	Not Specified	<p>academic year fellowships will pay \$18,000 for two semesters or \$9,000 for one semester. The Lemann Graduate Fellows will have tuition and fee waivers from LAS units and participating professional schools during the period of their award.</p>

4	TWAS-CNPq Postdoctoral fellowship programme	<p>TWAS-CNPq Postdoctoral Fellowships are tenable at research institutions in Brazil for a minimum period of six months to a maximum period of twelve months. They are awarded to scientists from developing countries (other than Brazil) to enable them to pursue postdoctoral research in the natural sciences.</p>	<ul style="list-style-type: none"> • Must not hold a visa for permanent or temporary residency in Brazil or in a developed country. • Hold a PhD degree in a field of the natural sciences. • Be a regular employee in a developing country (other than Brazil) and hold a research assignment there. • Not take up other assignments during the period of her/his fellowship. • Prove knowledge of Portuguese or provide a certificate of proficiency in Spanish or English. 	Not Specified	Minimum of 6 and maximum of 12 months
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 **Canada**

1	Canadian Nuclear Society (CNS)	<p>1. To act as a forum for the exchange of information relating to nuclear science and technology;</p> <p>2. To foster the development and beneficial utilization of nuclear science and technology for peaceful uses;</p>	<p>The criteria for appointment as a CNS Fellow require extensive and important service to the Canadian Nuclear Society, and current CNS membership of at least five years' standing. A further essential requirement is that the recipient must have demonstrated impressive technical capability, maturity of judgment and breadth of experience, as well as sustained contributions to the sciences and/or professions that relate to the advancement of nuclear technology in Canada.</p>	Not Specified	Not Specified
2	NSERC-Visiting Fellowships in Canadian Government Laboratories Program	<p>The Visiting Fellowships in Canadian Government Laboratories (VF) Program provides promising emerging scientists and engineers with the opportunity to work with research groups or leaders in Canadian government laboratories and research</p>	<p>Must have doctoral degree in the natural sciences or engineering from a recognized university within the past five years. The application will be accepted if the applicant is currently enrolled in a doctoral program at a recognized university; however, the applicant must complete all requirements for the degree (including the thesis defence) within six months of submitting the application.</p>	Not Specified	<p>One year, renewable for up to two more years</p> <p>\$50,503 per year (one year, renewable for up to two more years)</p>

3	NSERC- Postdoctoral fellowship programme	The Postdoctoral Fellowships (PDF) Program provides support to a core of the most promising researchers at a pivotal time in their careers. The fellowships are also intended to secure a supply of highly qualified Canadians with leading edge scientific and research skills for Canadian industry, government and universities.	1. be a Canadian citizen or a permanent resident of Canada; and 2. hold or expect to hold a doctorate in one of the fields of research that NSERC supports. 3. Must have completed all requirements of the first doctoral degree no more than two years before the deadline date of the year in which applied.	Not Specified	2 Years	\$45,000 per year for two years
4	Damon Runyon Cancer Research Foundation	The Foundation encourages all theoretical and experimental research relevant to the study of cancer and the search for cancer causes, mechanisms, therapies and prevention.	Applicants must have completed one or more of the following degrees or its equivalent: MD, PhD, MD/PhD, DDS, DVM. The applicant must include a copy of his/her diploma to confirm date of conferral.	Not Specified	4 Years	The \$2,000 expense allowance is awarded to the laboratory in which the Fellow is working and can be used by the Fellow for his/her educational and scientific expenses.

➤ Japan

S.No.	Name	Objective	Eligibility	Age Limit	Tenure	Nature of Support
1	UNESCO /Japan young researcher's fellowships programme	The aim of the fellowships is to support innovative and imaginative post-graduate research in four areas of development of particular interest to UNESCO.	1. Candidates under this Programme must be post-graduate researchers, already holding either an M.A. or M.Sc. degree 2. The selected Fellow must carry out the research under the auspices of an academic supervisor in a host institution. Confirmation of acceptance from the academic supervisor is imperative. 3. Candidates must be proficient in reading and writing the language of instruction in the proposed country of study/research.	Candidates must be no more than 40 years of age.	3-9 Months	A maximum amount between US\$6,000 to US\$10,000 will be awarded to selected candidates. No other costs will be considered and grants will be neither extended nor renewed.

2	Matsumae International Foundation (MIF) Research fellowship programme	These fellowships are open to active, young researchers of outstanding character who are conducting research in natural science, engineering and medicine (first priority); social sciences, humanities, and arts (lower priority).	1. Applicants must hold a PhD (Doctorate) degree, or be recognized by the Matsumae International Foundation as possessing equivalent academic qualifications. 2. Applicants must have sufficient conversational ability in English or Japanese to prevent insurmountable difficulties during their research activities in Japan. 4. Applicants should have firm positions and professions in their home countries, and should return to their countries on completion of their fellowship stay by the Foundation.	. Applicants must be under 49 years old at the time of application	3-6 Months	220,000 yen monthly for the purpose of tuition, expenses for research materials, lodging, transportation, etc., (approx. \$2,307 CDN), overseas Travel Accident/Sickness Insurance, an economy-class round trip; and 120,000 yen lump sum for local travel expenses on arrival etc., (approx. \$1,258 CDN)
3	JSPS-Short-Term Invitation fellowship	Short-term Invitation Fellowships invite senior scientists to participate in discussions, attend seminars, give lectures, or perform similar functions at Japanese research institutions and laboratories.	1. Senior scientists, university professors, or other persons with substantial professional research experience equivalent to a university professor or associate professor . 2. Possess either the nationality or citizenship of the nominating country or be a permanent resident of that country. 3. Researchers with an excellent record of research achievements.	Not Specified	From 14 to 60 days.	1. A round-trip air ticket (based on JSPS regulations) 2. A daily maintenance allowance of 18,000 yen 3. Domestic research travel allowance of 150,000 4. Overseas travel accident and sickness insurance coverage
4	JSPS- Long-Term Invitation fellowship	Long-term Invitation Fellowships invite scientists to Japan to conduct cooperative research work with scientists at Japanese research institutions and laboratories.	1. Possess either the nationality or citizenship of the nominating country or be a permanent resident of that country. 2. Have a research background equivalent to that of a professor, associate/assistant professors or research associate in a Japanese university as of 1 April 2015. Other researchers may be eligible if they have held a doctorate degree for a period of more than six years prior to April 1 of the planned fellowship year.	Not Specified	From 2 to 10 months.	1. A round-trip air ticket (based on JSPS regulations) 2. A monthly maintenance allowance of 369,000 yen 3. Domestic research travel allowance of 100,000 yen 4. Research expenses of 40,000 yen 5. Overseas travel insurance.

5	Abe fellowship	The objectives of the program are to foster high quality research in the social sciences and related disciplines, to build new collaborative networks of researchers.	1. This competition is open to citizens of the United States and Japan as well as to nationals of other countries who can demonstrate strong and serious long-term affiliations with research communities in Japan or the United States. 2. Applicants must hold a Ph.D. or the terminal degree in their field, or have attained an equivalent level of professional experience at the time of application.	Not Specified	minimum of 3 and a maximum of 12 months of full-time support over a 24-month period.	
6	Abe fellowship for Journalists	The Abe Fellowship for Journalists is designed to encourage in-depth coverage of topics of pressing concern to the United States and Japan through individual short-term policy-related projects.	1. The AFJ competition is open to citizens of the United States and Japan with at least five years of professional journalistic experience with newspapers, newsmagazines, wire services, and online news organizations. Freelancers are also eligible. Nationals of other countries must be permanent residents of the United States or Japan, or have a long-term affiliation with the American or Japanese journalistic communities. 2. U.S.-based applicants with no previous journalistic employment in Japan have priority; Japan-based applicants with no previous journalistic employment in the United States have priority. 3. Proposals must be nonpartisan	Not Specified	The fellowship tenure may begin between April 1 and December 31, 2016	The stipend is \$23,500, which includes one round-trip air ticket, funds to prepare for overseas fieldwork, and support for interpretation. Fellows may receive salary from their employers, but cannot carry out assignments while on the award.

RESEARCH METHODOLOGY

Target population & sample size

The objective of this project is to suggest modifications in the fellowship under study if required based on feedback for better impact. Under the study those fellowships which are targeting the scientists and engineers settled abroad and want to come back to India and Indian Scientist who are working in India will be dealt with. Besides only those fellowships have been targeted where the annual grant is 3.00 Lakh and above. The desk research suggests that the following fellowships will be the target. The other fellowships falling in this category will also be covered as they come to light during the study.

1. J.C. Bose National Fellowship
2. Ramanujan Fellowship
3. Ramalingaswamy Re-entry Fellowship
4. Tata Innovation Fellowship

The analysis of previous literature reveals that during the reference period 2006-13 roughly 650 fellowships under different heads and by different government bodies were released.

1. Under J.C. Bose National Fellowship a monthly stipend of Rs. 25,000 per month plus a contingency grant of Rs. 10 Lakhs per year is granted. Nearly 260 J.C. Bose Fellowships were granted during the reference period 2006-13. J.C. Bose fellowship is granted to recognize active scientists and engineers who are residing in India and have given outstanding performance and contribution.

2. Ramanujan fellowships is awarded to brilliant scientist and engineers from all over the world it has a monthly award of Rs.85,000/- per month. In addition a research grant of Rs. 7.00 Lakh per annum is also granted . During the reference period 2006-13 nearly 200 fellowships were granted. This fellowship is laid down with the aim of bringing the scientists back to India who want to return to India from abroad.
3. Department of Biotechnology , Government of India provides Ramalingaswamy Re-entry and Tata Innovative fellowships to young scientists and researchers. Under Ramalingaswamy Re-entry fellowship a grant of Rs. 85,000/- per month and a contingency grant of Rs. 10 lakhs Per annum for the 1st year , Rs 7.50 lakhs for the 2nd year and Rs 5.00 lakhs for subsequent 3 years is given. Nearly 154 fellowships were granted during the reference period 2006-13 . This scheme is instituted for Indian National who are working overseas in the various fields of biotechnology and life science.
4. Tata innovative fellowship is awarded for a duration of three years. A fellowship of Rs. 25,000/- per month plus a Contingency grant of Rs.6 Lakh per annum is awarded. During the reference period 2006-13 nearly 39 fellowships were awarded. This fellowship is open to all Indian Nationals residing in India.
5. For the project work all the recipient of the fellowships awarded during the reference period 2006-13 were approached. It was ensured that at least 30% of the recipients in each category are covered for analysis.

YEARWISE FELLOWSHIPS AWARDED DURING 2006-13

Year	DST Fellowships		DBT Fellowships	
	*Ramanujan	*J.C Bose	Ramalingaswamy	Tata Innovative
2006-07	-	23	-	-
2007-08	2	25	7	10
2008-09	17	10	14	4
2009-10	27	35	22	5
2010-11	27	10	30	4
2011-12	36	8	33	4
2012-13	29	13	50	5
2013-14	40	22	3	5
Total	178	146	159	37

* Data shown yearwise as per the availability on internet.

Sources of data

For the purpose of this research both primary as well as secondary data was analyzed. The scientific departments and agencies were contacted to provide data with reference to the candidates and institutions where the fellowships have been awarded during the year 2006-2013. Also information regarding their contributions and achievements was retrieved from the reports submitted by them to these departments. The recipients were directly approached through a questionnaire for data collection. 50 recipients were contacted for face to face interviews.

Method of data collection

The secondary data for the purpose of research was collected from books, articles, internet sources and from annual report of government bodies granting fellowships. The primary data was collected by personal interviews and questionnaire.

Frequency of Respondents :

*PI – Personal Interview

Sno.	Fellowship	Deptt.	Total Respondents (Mail Sent)	Mail Received	Response Received		Total
					Mail	PI*	
1.	Ramanujan Fellowship	DST	137	107	35	5	40
2.	J.C Bose Fellowship	DST	74	68	19	10	29
3.	Ramalingaswamy Fellowship	DBT	96	84	29	5	34
4.	Tata Innovative Fellowship	DBT	40	38	10	5	15

Questionnaire Details

Questionnaire under the study was prepared in order to fetch proper information from the respondents. While preparing the Questionnaire as well as during data collection input's from both i.e the respective departments and the beneficiaries were duly taken into consideration. Key persons of both the departments i.e Department of Science & Technology and Department of Biotechnology were contacted/interviewed to elicit response of sponsoring bodies. Delphi study was conducted through the mail, by telephone and by personal interviews as well. Individuals were selected who had knowledge necessary to analyze a specific problem.

1. Reference period of the data to be covered

The proposed reference period taken for data collection was 2006 - 2013 covering nearly 450 recipients.

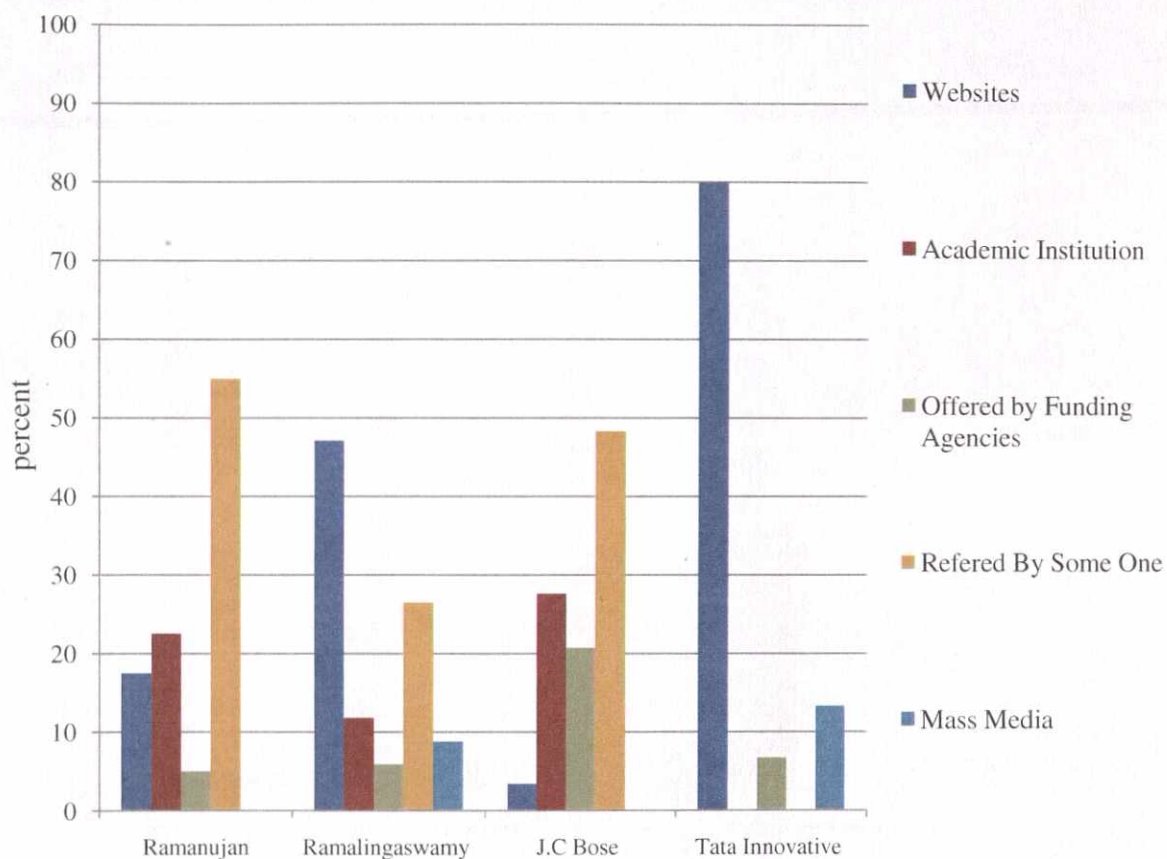
2. Method of Processing and analysis

Data Collected was analyzed and interpreted under the able guidance of Senior Scientist

Dr. Laxman Prasad. The Data collected through primary and secondary sources was analyzed vis-à-vis, objectives of each of the fellowship. Special attention was given to bring out the modifications required for improving the outcome of fellowships. For data analysis the advise of Statistician was taken. The data is Quantitatively as well as Qualitatively analyzed.

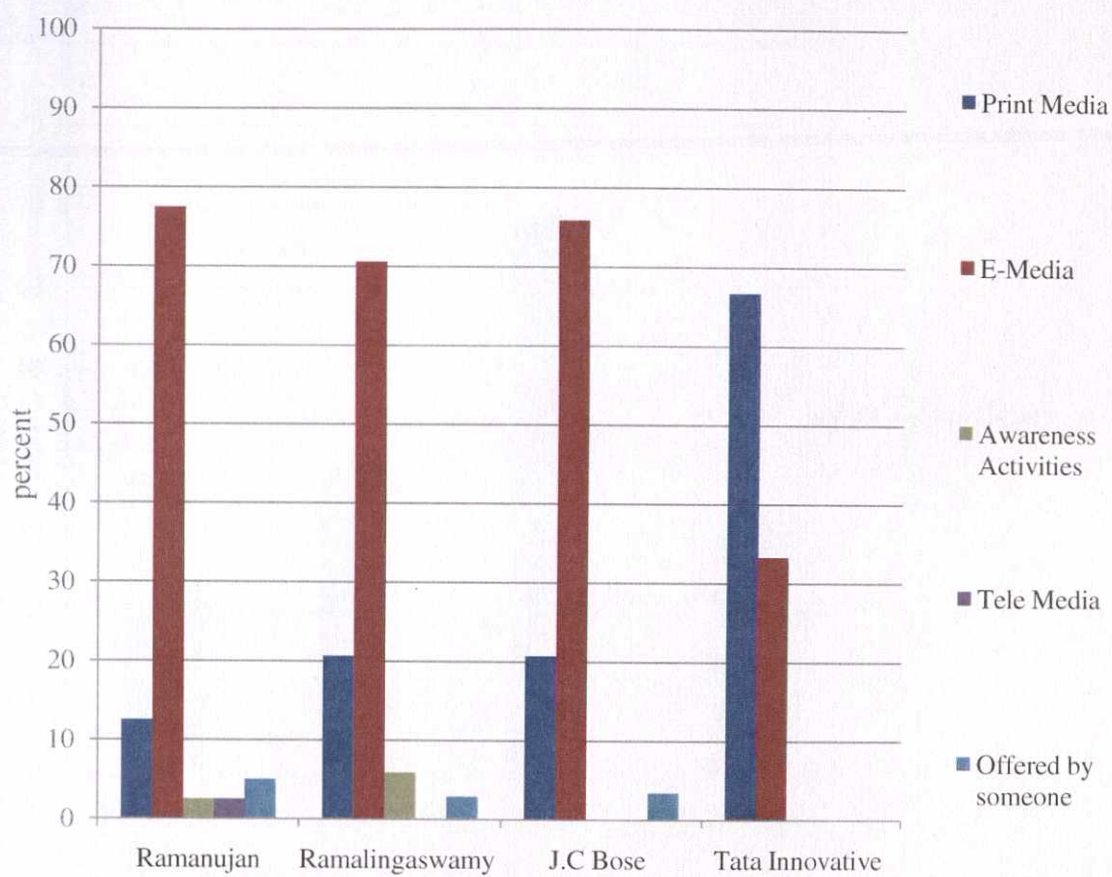
DATA ANALYSIS OF DST & DBT FELLOWSHIPS

1. Source of Information Related to Fellowship



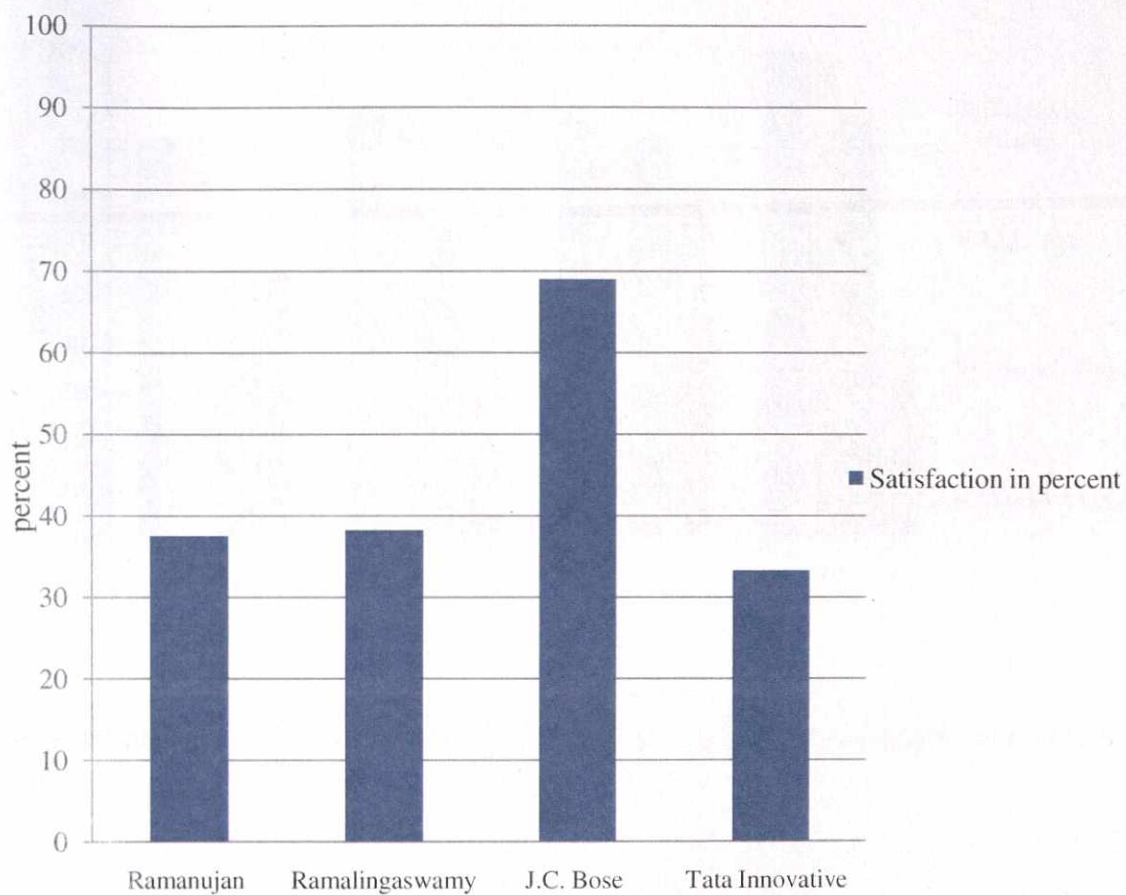
Fellowship Awareness Tools

2. Method of Dissemination of Information Regarding Nomination of Fellowship



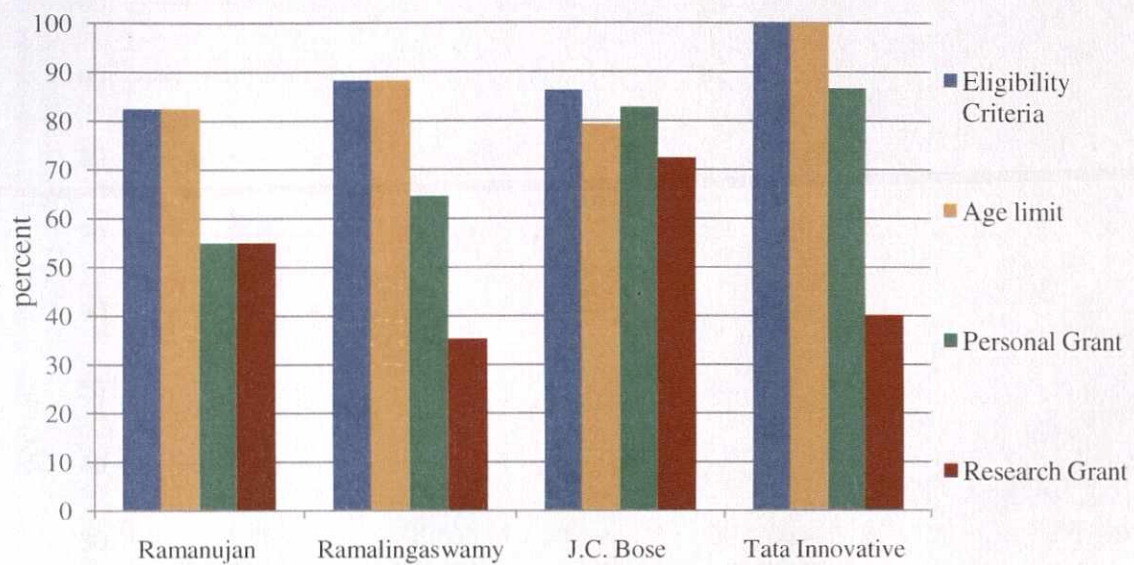
Preferred Tool for Information Dissemination

3. Level of Satisfaction Related to Amount of Fellowship



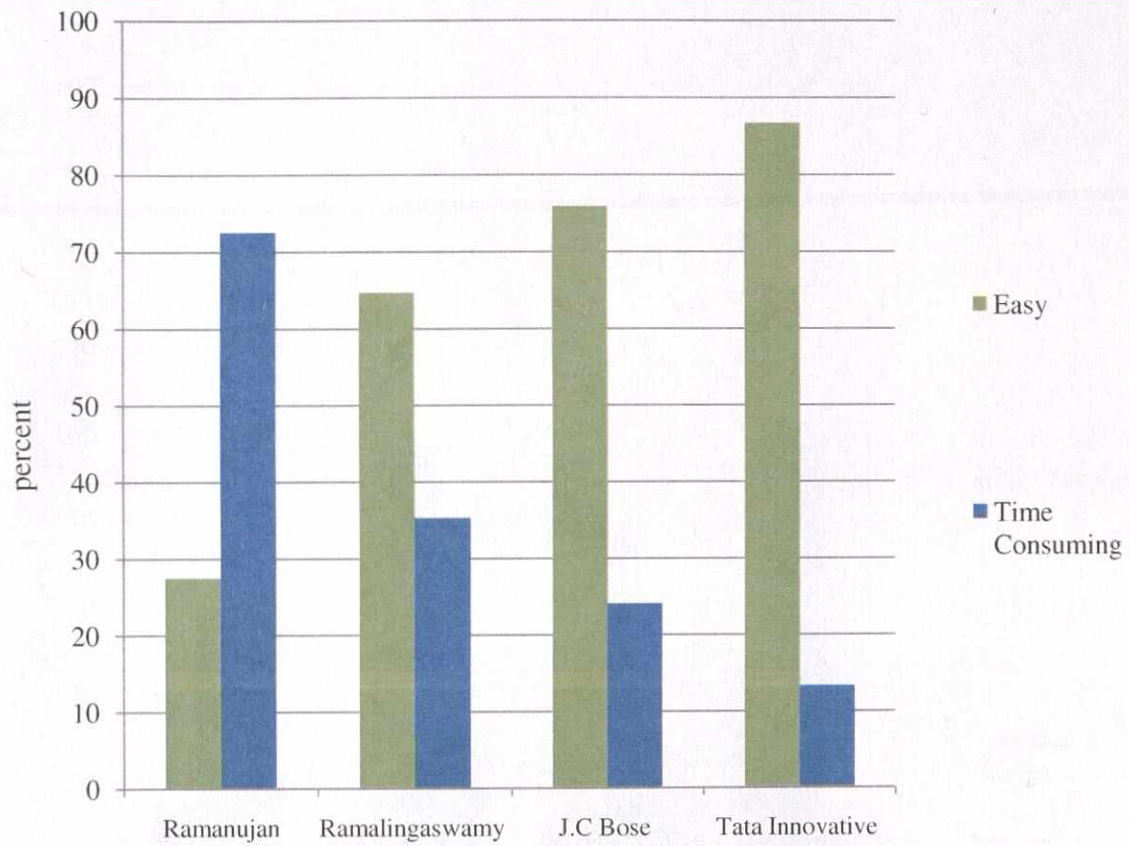
Level of Satisfaction Related to Amount of Fellowship

4. Level of Satisfaction Related to Eligibility criteria, Age limit, Personal grant and Research grant



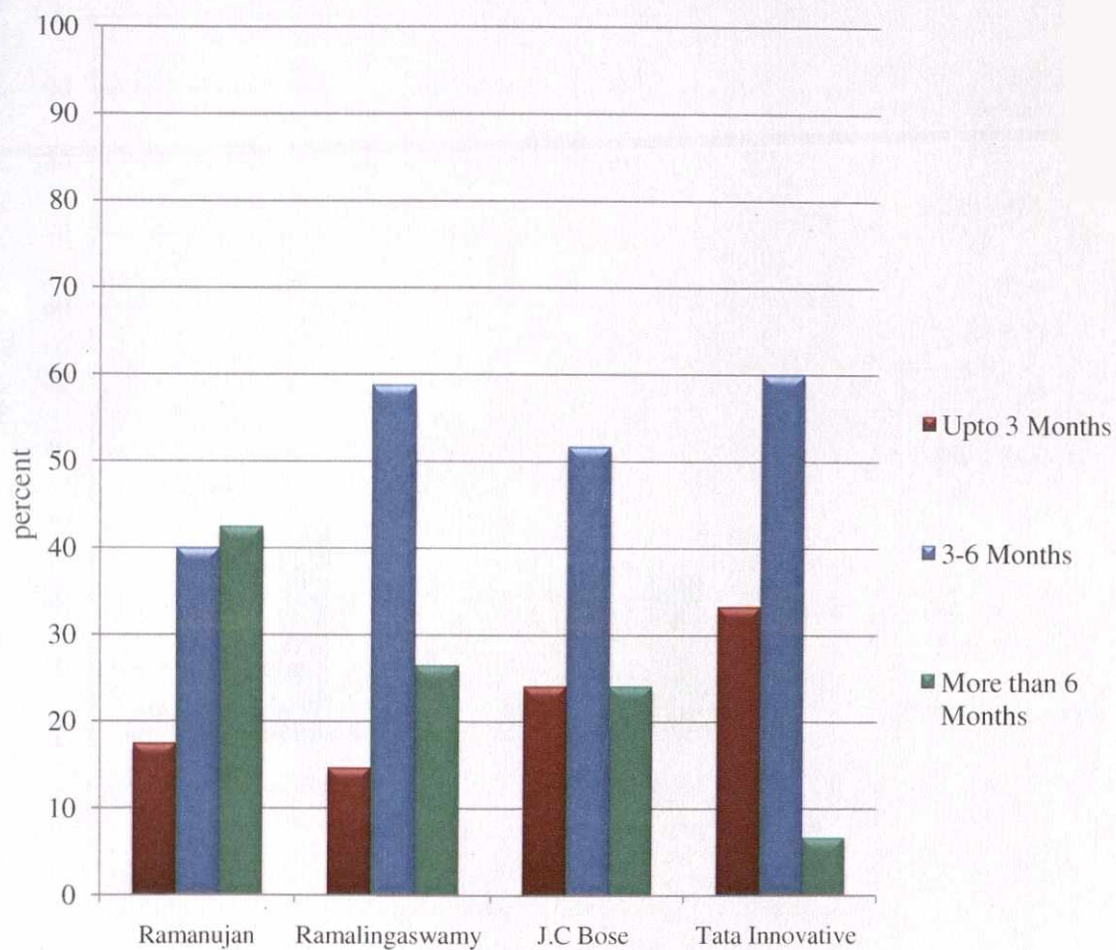
Level of Satisfaction Related to Eligibility criteria, Age limit, Personal grant and Research grant

5. Getting Information from the DST/DBT



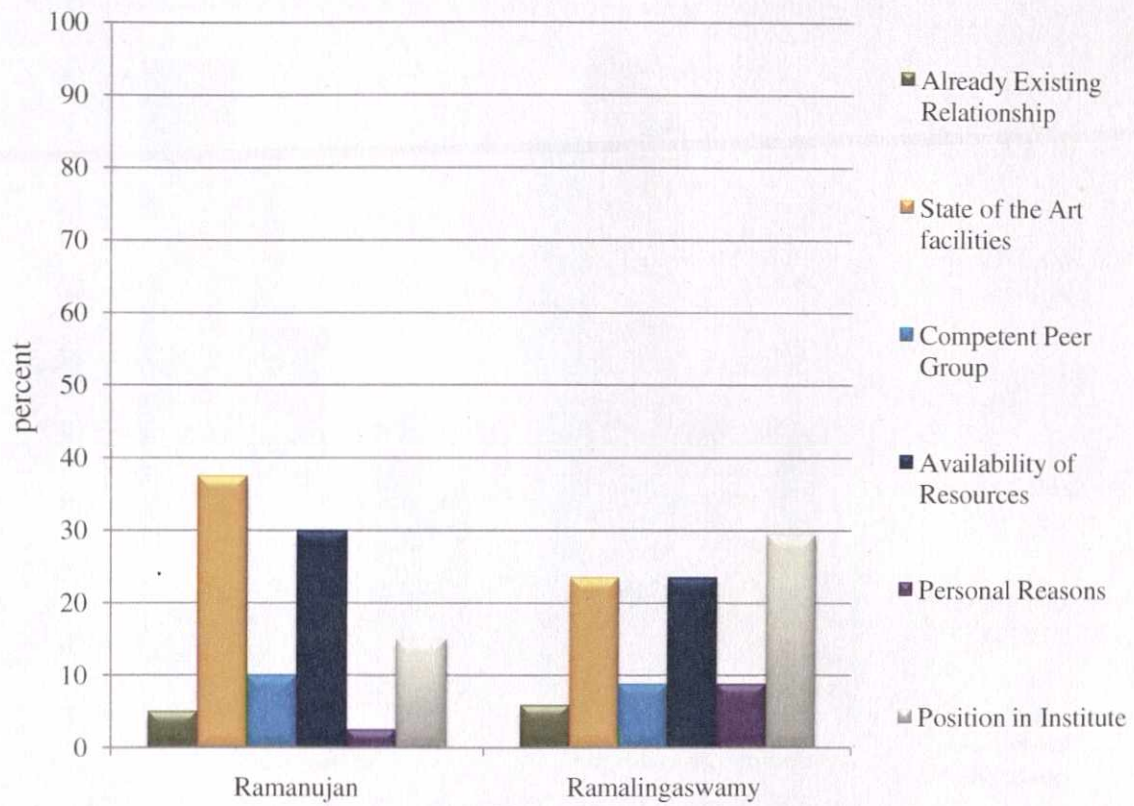
Getting Information from the DST/DBT

6. Time Taken in Decision Making by Funding Agencies



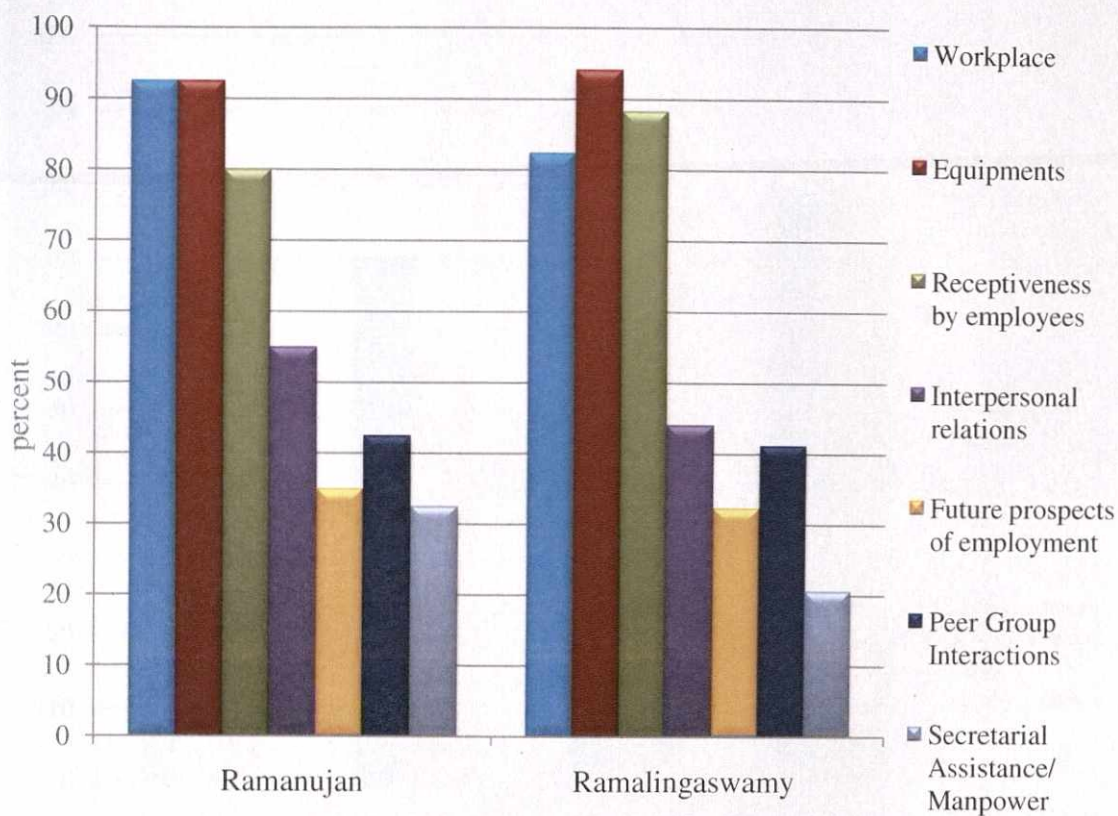
Time Taken in Decision Making by Funding Agencies

7. Criteria for choosing the Institute for Research Work



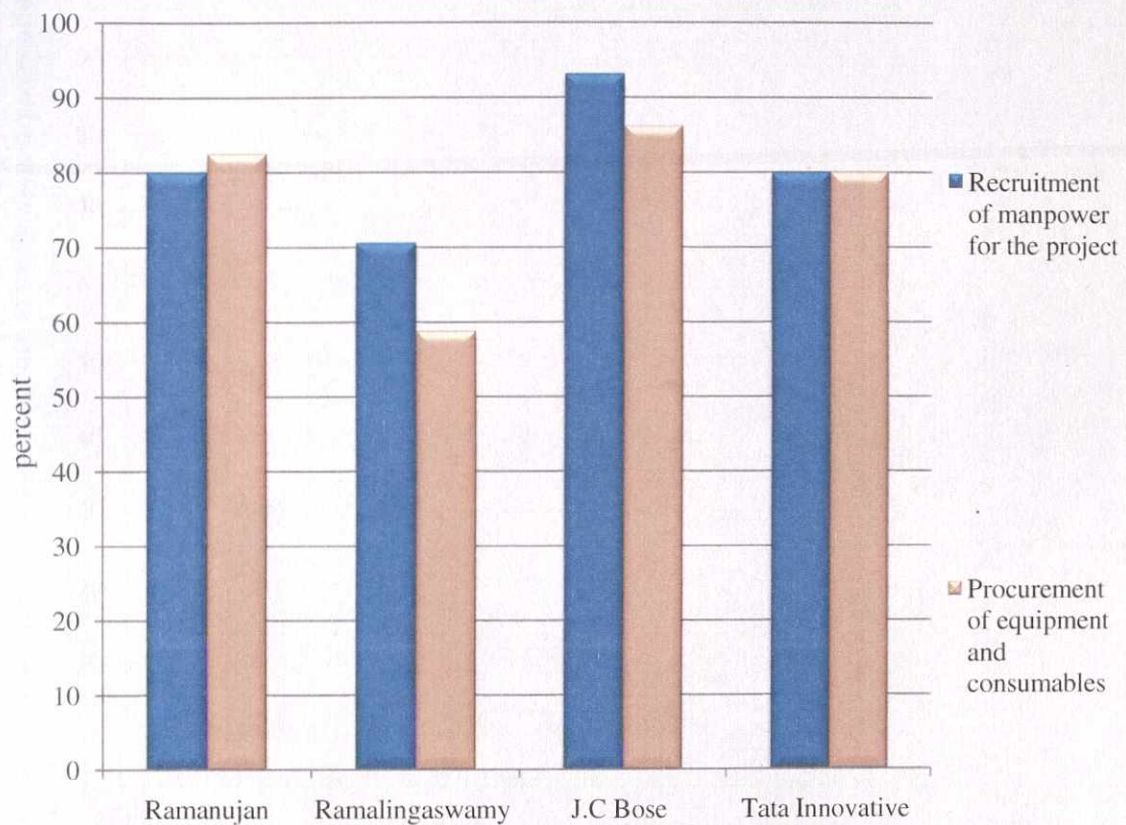
Criteria for choosing the Institute for Research Work

8. Level of Satisfaction at the Host Institute regarding Workplace, Equipments, Receptiveness by employees, Interpersonal relations, Future prospects of employment



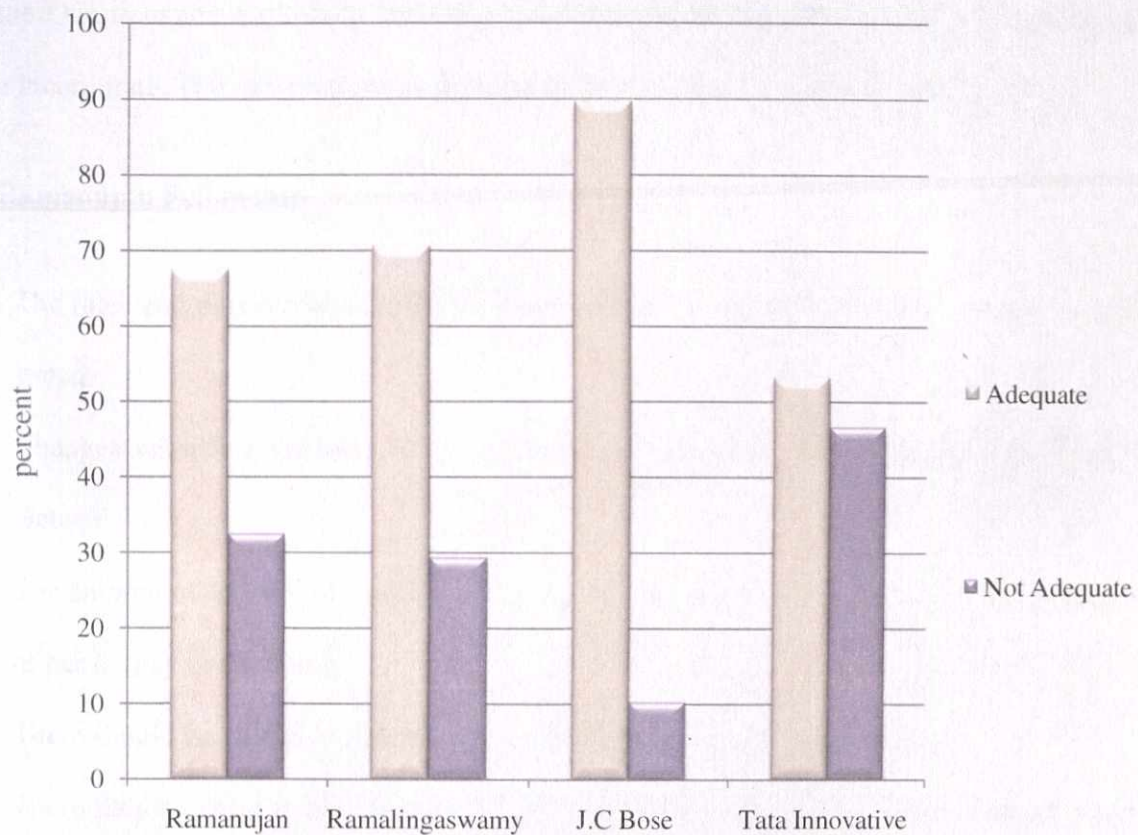
Level of Satisfaction at the Host institute regarding Workplace, Equipments, Receptiveness by employees, Interpersonal relations, Future prospects of employment

9. Flexibility and Convenience in Recruitment of Manpower for the Project and Procurement of Equipment and Consumables



Flexibility and Convenience in Recruitment of Manpower for the Project and Procurement of Equipment and Consumables

10. Adequacy of Tenure of Fellowships



Adequacy of Tenure of Fellowships

Qualitative Observations

➤ Recipient's Opinion

In the Questionnaire a question depicting the comment on any other aspect of fellowship was also incorporate. The observations as depicted under Question 12 has been listed below:

A. Ramanujan Fellowship

1. The rules and norms related to HRA, Transportation and Medical benefits should be clearly stated.
2. Changes regarding revision in rules of fellowship should be regularly updated on the website.
3. The amount of fellowship should be between the Pay Scale of Associate and Professor grade as per 6th pay commission.
4. There should be annual increment in the monthly grant given to the fellows.
5. There should not be restriction on age limit as this fellowship attracts researchers of various ages to return to India,
6. Reallocation grant should be given as the fellow recipient will reallocate himself from abroad to India.
7. House Rent allowance as a component should be added to the research grant and the rules related to HRA should be clearly stated.
8. Fellow recipients should be allowed to carry the unused contingency grant after 5year period. The unused contingency grant should be retained by the host institute.

9. Especially for biological researchers there should be enhancement of research grant as there is requirement of models and other equipments also.
10. There should be a dialogue between the funding agencies and the host institute on the issue of giving a permanent position to fellows after their satisfactory performance. The host institute should also make other resources like students and infrastructure available to them.
11. DST should also provide a letter having the following line “For all the official purposes Ramanujan fellows should be considered equivalent to scientist E or Associate Professor grade”.
12. The yearly assessment meeting should have experts from all fields of Science & Technology.
13. For each discipline separate Annual Conclave should be organized.

B. Ramalingaswamy Fellowship

1. The amount of fellowship should be made tax free and should include the inflation part into consideration.
2. There should not be restriction on age it should be purely based on merit and potential of researcher.
3. Information related to role of host institutes, research area of current fellows, publications of research fellow etc should be provided.
4. HRA should be given according to city-living-cost.
5. Funding agencies should prepare clear instructions for the host institute as still these fellows are not warmly welcomed by the host institute.

6. Host institute should allow fellows to teach and guide the PhD student as they are highly skilled and well updated in research areas but since they do not have permanent positions so they are not treated properly.
7. Tenure of the fellowship should be extended as it takes time to procure consumables, manpower & even to get the lab space.
8. Research grant should be allowed to carry forward to next year.
9. A list of institutes should be available to the new potential fellow which can reflect the absorption rate of the fellows to the host institute, so that they can have an idea which institute to join for their bright future.

C. J.C Bose Fellowship

1. If the researcher is found to be physically fit for carrying the research in the area of Science and Technology age limit should not be a constrain.
2. The project should be evaluated by PAC & depending upon the requirement, for selected cases research grant may be increased.
3. There should be flexibility in attending the international conferences abroad. Permission for more than one travel abroad should be given. There should not be any compulsion of flying by any one particular airlines as it may be expensive & less convenient.
4. Performance of the fellows should be evaluated and those whose performance is not up to the mark should not be eligible for the next round .

D. Tata innovative fellowship

1. The amount of fellowship should be on the basis of nature of research e.g some studies involve animal models and some of the studies require instrumental analysis.
2. The amount of fellowship should be tax free as these fellowships are adding to the Science & Technology of the country.
3. The fellowship should be given for a minimum of 5 years which should be extendable up to 10 years. As many research do not get completed in the stipulated tenure of 3 years.
4. Different fellowships are given by different agencies, like DST & DBT under the same Ministry of Science & Technology. Their names and benefits are different. These fellowships should be merged with the uniform benefits. So that recipients do not compare the fellowships.
5. There should be prize and award ceremony where certificates for getting this fellowship should be given. This will motivate other scientists also to contribute in field of Science and Technology.

➤ **Opinion of Head of Host institutions:**

As per the discussions held in the Local Project Advisory Committee meeting, we have interviewed Directors/Dean of some of the host institutes where fellowship recipients are/were working. On the basis of these interviews following observations have been framed :

1. Amount of Fellowship :

- a. Money for establishment of lab, manpower recruitment and for procurement of equipment is not sufficient for life sciences.
- b. The amount of fellowship should be on the basis of area in which research is done.

2. Eligibility Criteria :

- a. According to them the eligibility criteria for the fellow recipients is adequate and requires no change.

3. Age Limit :

- a. According to them no change is required in age limit for the fellow recipients.

4. Tenure of Fellowship :

- a. Tenure of fellowship should be fixed on the basis of field of research as area of research is different for different proposals. For example in life sciences it takes long span of years to complete the research.

5. Information related to various aspects of fellowship:

- a. Information related to utilization of money is ambiguous. HRA, Travel, child care etc. should be mentioned properly.

6. Views related to other aspects :

- a. In case of Ramanujan & Ramalingaswamy fellowship fellow recipients are not clear about the permanent position. DST/DBT should make clear instructions towards the permanent position in the host institution.
- b. Institute and DST/DBT should work efficiently so that issues faced by the recipient can be resolved as soon as possible.
- c. Recipients should be evaluated annually on several parameters like paper published, patent filed etc.
- d. If the progress of any fellow is not satisfactory, the fellowship should be stopped.
- e. For effective strategy making inter-discipline meets should be organized.
- f. Grant should be modified regularly on the basis of several parameter like inflation rate, pay commissions etc.
- g. Excellent work should be recognized and rewarded.
- h. Students of institute should be involved with fellows as per requirement.
- i. Only one extension should be given, delay in progress report submission should not be tolerated.
- j. Lobbying should be removed so that efficient people only get the fellowship
- k. Fellows should be involved in INSPIRE like program so that community is benefited.
- l. Research related talks should be delivered on different platforms by recipient of the fellowships.
- m. Increase in the no. of fellowships is required.

- n. Frequency of Conclaves should be increased and fellow should be forced to attend the Conclave.
- o. Mentoring bodies (area wise) should be made to facilitate fellows and fill the gap between the institute and funding agencies.
- p. Proper FAQ should be posted on website with many a anticipated questions to facilitate fellows and applicants.

➤ **Opinion of funding agencies DST /DBT:**

As per the discussions held in the Local Project Advisory Committee meeting, personal interviews were held with the officials of the funding agencies i.e DST/DBT. On the basis of these interviews following observations have been framed :

1. Amount of Fellowship :

The fact that the amount of fellowship is a motivating factor and the amount of money required for research varies from one area of research to another is well known. But variation in fixation of amount of fellowship and that of the grant is a subject of policy. It will be placed before the competent authority for consideration.

2. Tenure of Fellowship :

- a. According to funding agencies tenure for the fellowship is fixed. The provision of extension makes it flexible to take care of the extended span of time required by the recipients of certain specific areas.
- b. Selection and Extension of the fellowship is not a single step process. It is done by a 2-tier committee therefore it takes time to select the fellow recipients and give extension to the already selected fellow recipients.

3. Information related to various aspects of fellowship:

- a. On the issue of disclosure of various heads of the grant the funding agencies are of the opinion that the amount of grant is kept flexible so that it can be used as per the requirement of the fellow recipients.

4. Views related to other aspects :

- a. Funding agencies find it difficult to complete the process of selection and fund release on time as many application forms for the fellowship are not properly filled. They are not complete and lack the required documents which delays the process of selection and the subsequent step of release of fund .
- b. Funding agencies have specific formats for Finance utilization known as Utilization Certificate. In certain cases fellow recipients do not fill these details in proper format which delays the process of releasing their instalment .
- c. Funding agencies have formats for all the documents including the progress report but certain fellows do not follow the format for progress report submission.
- d. The documents required by the funding agencies such as utilization certificate , progress report etc. are not submitted on time by the fellow recipients due to which department is not able to complete the formalities related the respective fellowships.
- e. On the issue of absorption of fellows in the host institutions it was felt by the funding agencies that the host institutions are chosen by the fellow recipients on the basis of their individual requirement. The institutions or Universities are autonomous in nature and therefore this subject of absorption has to be decided by them on the basis of their respective rules and regulations.

CONCLUSIONS & RECOMMENDATIONS

The major recommendations on the basis of observations from data analysis are:

❖ Ramanujan Fellowship

Ramanujan fellowship is meant for brilliant scientists and engineers from all over the world to take up scientific research positions in India especially those scientists who want to return to India from abroad.

1. Amount of Fellowship for attracting them to return to the country :

The value of the fellowship under Ramanujan Fellowship is Rs.85,000/-per month as personal monthly grant . Each fellow in addition receive a research grant of Rs.7Lakhs per annum for conferences and other expenses.

On the basis of the responses under Question 4 of the questionnaire it is observed that the majority of the respondents(62.5%) have expressed non-satisfaction on the amount of fellowship as a whole i.e Personal monthly grant & Research grant .This expression of non-satisfaction is not supported under the responses received against Question 6.On both the aspects i.e Personal monthly grant and the research grant ,the majority of the respondents have expressed satisfaction (Personal monthly grant-55% & Research grant -55%)

As such it is felt that the current level of the fellowship is quite attractive for the scientists to return to India. However on the basis of the observations received under the miscellaneous head it is recommended that:

- a. Especially for biological researches there should be enhancement of research grant as there is requirement of models and other equipments also.
- b. The research / Contingency grant should be on the basis of the nature of research.
- c. Relocation grant should also be given to the fellows as the fellow recipients will relocate themselves from abroad to India.
- d. House rent allowance as a component should be added to the fellowship and the rules related to HRA should be clear.

2. Eligibility Criteria :

Majority of the respondents are satisfied by the eligibility criteria for nomination or the grant of fellowship and find it adequate. Therefore eligibility criteria for Ramanujan Fellowship should remain the same as below:

The researchers from all fields of science from all over the world are eligible for this fellowship. The applicant should possess a higher degree or equivalent, such as Ph.D. in Science/Engineering, Masters in Engineering or Technology/MD in Medicine, etc. and have adequate professional experience. These Fellowships are very selective and only those who have a proven/outstanding track-record as evident from their research publications and recognitions would be eligible.

3. Age limit :

Since majority of the respondents (82.5%) are satisfied with the current age limit of less than 60 years. It is recommended that the age restriction may remain as such .

4. Tenure of Fellowship :

Majority of respondents (67.5%) are satisfied with the tenure of 5 years of the fellowship, but it is still recommended that depending on the area of research extension should be given especially in the field like biological sciences.

5. Information related to fellowship :

a. Dissemination of Information: The observation on the dissemination of information related to various aspects of fellowship are in favor of E-media i.e website of Department of Science & Technology. It is recommended that Department of Science & Technology should use E-media more effectively as method for disseminating of the information in addition to other methods.

b. Availability of information : Respondents are generally satisfied on the effectiveness and readily availability of the information related to the fellowship .However it is recommended that the rules and norms related to various heads like House Rent Allowance ,Medical Allowance ,Travel Allowance etc should be regularly updated and should be current.

6. Host institute :

- a. Availability of State of the art facilities with the host institute is the major reason for choosing the host institute for research..Therefore DST should also look to these aspects of host institute before giving fellowship to the individual fellow who is coming from abroad as instances have been reported that there is mismatch between the facilities available and facilities as claimed by the host institute.
- b. There should be a dialogue between the funding agencies and the host institute on the issue of giving a permanent position to fellows after their satisfactory performance.
- c. The host institute should also make other resources like students and infrastructure available to them.

7. Other Recommendations :

- a. The observation from the study reflects that 72.5% of the respondent find it time consuming in getting the information from the Department of Science & Technology. Therefore it is recommended there should be a mechanism which can reduce time of getting the information so that this fellowship is effectively utilized in the field of Science & Technology.
- b. The majority of the respondents 80% find the proforma of application for applying for this fellowship clear. It is easily understandable. Therefore it is recommended that the proforma should remain the same.
- c. It is observed that 82.5% of the respondents are of the opinion that it takes more than 3 months for a funding body i.e DST to take decision regarding the nomination of the fellows for this fellowship. Moreover out of this 82.5% of the respondents 42.5% of respondents say that it is even more than 6 months. Therefore it is recommended that this time period should be reduced in order to maintain the standard of fellowship.
- d. The observation from the study reflects that the 57.5% of the respondent are of the feeling that once the decision is taken time taken in releasing the fund and receiving it is satisfactory. However the % of respondents who are of the opinion that the time taken in receiving the funds is long is also not less (42.5%).It is recommended that the time taken in releasing the funds should not be very long incase there are some governmental issues the information related to issues & problems should be intimated to the recipients.
- e. It is recommended that on the basis of inflation rate there should be annual increment of the fellow recipients like other faculty members of the host institute in the monthly grant.
- f. Fellow recipients should be allowed to carry the unused contingency grant after completion of the tenure of the fellowship i.e 5 years . The unused contingency grant should be retained by the host institute instead of its surrender to the Department of Science & Technology.

- g.** Instances have been reported that in the yearly assessment meeting the experts from all the fields of Science and Technology are not present due to which the fellows are not able to make them understand their research world therefore it is recommended that yearly assessment committee should have members from all fields.
- h.** Annual Conclave is an event organized by Department of Science and Technology for bringing all the research fellows of Ramanujan Fellowship together .It has been reported by some of the fellowship recipients that there should be separate conclave for different disciplines as they are not able to interact with the researchers of their disciplines therefore it is recommended that there should be separate conclave for different disciplines.

❖ **Ramalingaswamy Re-entry Fellowship**

Ramalingaswamy fellowship is meant for Indian Nationals working in overseas research institutions. The aim of this scheme is to attract highly skilled researchers (Indian Nationals) working overseas in various cutting edge disciplines of biotechnology (agriculture, health sciences, bio-engineering, energy, environment, bioinformatics and other related areas) by providing them an attractive avenue to pursue their R&D interests in Indian Institutions.

1. Amount of Fellowship for attracting them to return to the country :

The value of the fellowship under Ramalingaswamy Fellowship is Rs.85,000/-p.m..In addition a House Rent Allowance of Rs.7,500/- p.m is given to fellows. Each fellow in addition receives a research/Contingency grant of Rs.10 Lakhs for the 1st year, Rs.7.50 Lakhs for the 2nd year , Rs 5.00 lakhs for subsequent 3rd year for purchase of consumables, minor equipment , international and domestic travel ,engaging manpower and other contingent expenditure to be incurred for the implementation of research proposal.

On the basis of the responses under Question 4 of the questionnaire it is observed that the majority of the respondents(61.8%) have expressed non-satisfaction on the amount of fellowship. This expression of non-satisfaction is not supported under the responses received against Question 6a about Personal monthly grant where 64.7% of the respondents are satisfied by the monthly grant received in this fellowship however the response under the Question 6b about research grant supports the expression of non satisfaction as majority of the respondents 64.7% have expressed non-satisfaction towards research grant under this fellowship.

As such it is felt that the current level of the fellowship is not attractive for the scientists to return to India.

On the basis of the observations received under the miscellaneous heads it is recommended that:

- a. The amount of research grant should be according to the type of the research done.
- b. HRA should not be uniform it should be given according to cost of living under this fellowships majority of respondents are not satisfied by the HRA given under this fellowship.
- c. Equipment grant in case major equipments are required should be added as a component in contingent grant.
- d. Medical benefit should also be given in this fellowship.
- e. The amount of fellowship should be made tax free.
- f. There should be annual increase in the amount of fellowship rather than fixing it for five years. The inflation rate should also be taken into consideration while deciding about the amount of fellowship.
- g. When the amount of fellowship increases, initial awardees should also be given the benefit.
- h. The amount of fellowship is ok for the scientists who want to come back to India but the amount of this fellowship alone does not attracts the scientists to come back.

2. Eligibility Criteria :

Majority of the respondents(88.2%) are satisfied by the eligibility criteria for nomination or the grant of fellowship and find it adequate. Therefore eligibility criteria for Ramalingaswamy Fellowship should remain the same as below:

Ramalingaswamy fellowship is given to those applicants who possess a Ph.D., M.D., M.Tech, M.VSc. or equivalent degree with an outstanding track record as reflected in publications and other recognitions and with at least three years of post-doctoral research experience of which last two years should be from an overseas laboratory.

Only candidates (Indian nationals) working overseas are eligible to apply. Those who have already returned to India within one year of the closing date of this advertisement are also eligible.

3. Age limit :

Majority of the respondents (88.2%) are satisfied with the current age limit of up to 55 years . But it is still recommended that the grant of fellowship in certain cases should be on the basis of potential and experience.

4. Tenure of Fellowship :

Majority of respondents (70.6%) are satisfied with the tenure of 5 years of the fellowship. But it is still recommended that that depending on the area of research extension should be given as it takes time to procure consumables, manpower and even to get the lab space .

5. Information related to fellowship :

- a. **Dissemination of Information:** The observation on the dissemination of information related to various aspects of fellowship are in favor of E-media i.e website of Department of Biotechnology. It is recommended that Department of Biotechnology should use E-media more effectively as method for disseminating of the information in addition to other methods .
- b. **Availability of information :** Respondents are generally satisfied on the effectiveness and readily availability of the information related to the fellowship .

6. Host institute :

- a. Position in the institute , State of the art facilities and Availability of resources are the major reasons for choosing the host institute for research.
- b. Since the objective of this fellowship is to attract highly skilled researchers(Indian Nationals) working overseas to take R&D in Indian Institutions therefore it is recommended

that there should be a dialogue between the funding agencies and the host institute on the issue of giving a permanent position to fellows after their satisfactory performance as after the completion of this fellowship they strive for survival.

- c. It is recommended that the host institute should also make other resources like students and infrastructure available to them. However after the steps taken by Department of Biotechnology it can be seen that this suggestion of the respondents has taken care of.

7. Other Recommendations :

- a. The observation from the study reflects that majority of respondents (64.7%) find it easy in getting the information from the Department of Biotechnology. Therefore it is recommended that since this is a prestigious fellowship so mechanism should be adopted so that 35.3% of respondents who find it time consuming are also satisfied.
- b. The majority of the respondents 85.3% find the proforma of application for applying for this fellowship clear. It is easily understandable. Therefore it is recommended that the proforma should remain the same.
- c. The observation from the study reflects that 85.3% of the respondents are of the feeling that it takes more than 3 months for a funding body i.e DBT to take decision regarding the nomination of the fellows for this fellowship. Moreover out of this 85.3% of the respondents 26.5% of respondents are of the opinion that it is even more than 6 months. Therefore it is recommended that this time period of taking the decision regarding the nomination for fellowship should be reduced.
- d. It is observed that 64.7% of the respondent are of the feeling that once the decision is taken time taken in releasing the fund and receiving it is satisfactory however only 35.3% of respondents are of the feeling that the time taken in receiving the funds is long .

- e. It is recommended that interviews of certain fellows should be uploaded on the website of Department of Biotechnology for making this fellowship more attractive.
- f. It has been observed that in many cases behavior of host institute is not friendly, therefore it is recommended that a list of institutes should be uploaded on the website of funding bodies reflecting the absorption rate of the fellows in the host institutes so that new applicants can have an idea of their future before forwarding their application through those institutes.
- g. It is recommended that the fellow recipients should be allowed to carry forward the unused research grant to the next year.

❖ **J.C Bose Fellowship**

J.C Bose fellowship is meant to recognize active scientists and engineers for their outstanding performance and contributions. This fellowship covers scientists from all areas of science.

1. Amount of Fellowship :

The value of the fellowship under J.C Bose Fellowship is Rs.25,000/-per month in addition to regular income. Each fellow in addition receives a research grant of Rs.10 Lakhs per annum for conferences and other expenses.

On the basis of responses under the Question 4 of the questionnaire it is observed that majority of the respondents (69%) are of the opinion that the amount of fellowship is adequate to attract the scientists and engineers for research in all areas of science & technology. This expression of satisfaction is also supported by the responses given against the Question 6. On both the aspects i.e Personal monthly grant and the research grant ,the majority of respondents are satisfied (Personal monthly grant -82.8% & Research grant -72.4%)

Therefore it is felt that the current level of fellowship is quite attractive for the scientists and engineers to go for research work in all areas of Science & Technology. However on the basis of the observations received under the miscellaneous head it is recommended that:

- i. The amount of fellowship should be in accordance with the inflation rate.
- ii. In selected cases on the basis of evaluation done by Project Advisory Committee this grant can be increased.

2. Eligibility Criteria :

Majority of the respondents(86.2%) are satisfied by the eligibility criteria for nomination or the grant of fellowship and find it adequate. Therefore eligibility criteria for J.C Bose fellowship should remain the same as below:

All areas of science (in the broadest terms) are covered by this fellowship. The applicant should possess a higher degree or equivalent: namely Ph.D. in Science/Engineering, Masters in Engineering or Technology/MD in Medicine, etc. and must have carried out several years of work in the specific area. These Fellowships are meant for those who have a proven track-record as evident from their research publications and recognitions. The candidate must have a regular position in an Institute /Organization and should be engaged in research. If he /she is availing any other fellowship, he/she will have to opt for only one of the fellowships.

3. Age limit :

Majority of the respondents (79.3%) are satisfied with the current upper age limit of 68 years for completion of fellowship. Therefore it is recommended that the age restriction may remain as such.

However it is also recommended that in certain cases if the researcher is found to be physically fit for carrying the research and the area of research is unique e.g in Medical field , barrier of age limit should be removed.

4. Tenure of Fellowship :

Majority of respondents (89.7%) are satisfied by the tenure of 5 years of the fellowship. But it is still recommended that depending on the area of research extension should be given.

5. Information related to fellowship :

a. Dissemination of Information: The observation on the dissemination of information related to various aspects of fellowship are in favor of E-media i.e website of Department of Science & Technology. It is recommended that Department of Science & Technology should use E-media more effectively as method for disseminating of the information in addition to other methods .

b. **Availability of information** : All respondents are satisfied on the effectiveness and readily availability of the information related to the fellowship ...

6. **Other Recommendations** :

- a. Majority of the respondents (75.9%) find it easy in getting the information from the Department of Science & Technology.
- b. The majority of the respondents 93.1% find the proforma of application for applying for this fellowship clear. It is easily understandable. Therefore it is recommended that the proforma should remain the same.
- c. Majority of the respondents (75.8%) are of the opinion that it takes more than 3 months for a funding body i.e DST to take decision regarding the nomination of the fellows for this fellowship. Moreover out of this 75.8% of the respondents 24.1% of respondents are of the opinion that it is even more than 6 months. It is recommended that DST should reduce the time in taking decisions regarding the nomination of fellowship. Therefore it is recommended that this time period should be reduced in order to maintain the standard of fellowship.
- d. It is recommended that Performance of the fellows should be evaluated and those whose performance is not upto the mark should not be recommended further.
- e. Fellows should be given flexibility in attending the international conferences abroad.They should be permitted for more than one travel abroad .
- f. It is recommended that fellows should not be compelled to fly by any one particular airlines as it may be expensive and less convenient.

❖ Tata Innovative Fellowship

Tata Innovation Fellowship is a highly competitive scheme instituted by the Department of Biotechnology, Ministry of Science & Technology, Govt. of India to recognize and reward scientists with outstanding track record in biological sciences and a deep commitment to find innovative solutions to major problems in healthcare, agriculture and other areas related to life sciences and biotechnology. The scheme is aimed at rewarding interdisciplinary work where major emphasis is on innovation and translational research with a potential towards commercialization

1. Amount of Fellowship :

The amount of the fellowship is **Rs. 25,000/- per month** in addition to regular salary from the host institute. If awardee is receiving salary from international organization, He will be entitled for research grant i.e. contingency only. In addition, each Fellow also receives a contingency grant of **Rs. 6.00 lakh per annum** for meeting the expenses on consumables, equipment, international and domestic travel, manpower and other contingent expenditure to be incurred in connection with the implementation of ongoing research project under the fellowship.

On the basis of the responses under Question 4 of the questionnaire it is observed that the majority of the respondents(66.7%) have expressed non-satisfaction on the amount of fellowship .This expression of non-satisfaction is not supported under the responses received against Question 6a about Personal monthly grant where 86.7% of the respondents are satisfied by the monthly grant received in this fellowship however the response under the Question 6b about research grant supports the expression of non satisfaction as majority of the respondents 60% have expressed non-satisfaction towards research grant under this fellowship.

As such it is felt that the current level of the fellowship is not attractive for the scientists to apply for this fellowship for doing research in biological sciences..On the basis of the observations received under the miscellaneous heads it is recommended that:

1. The amount of fellowship should be on the basis of nature of research e.g some studies involve animal models and some studies require instrumental analysis.
2. The amount of fellowship should be tax free.

2. Eligibility Criteria :

All the respondents are satisfied by the eligibility criteria for nomination or the grant of fellowship and find it adequate. Therefore eligibility criteria for Tata Innovative Fellowship should remain the same as below:

This fellowship is given to those applicants who possess a Ph.D degree in Life Sciences, Agriculture, Veterinary Science or a Master's degree in Medical Sciences, Engineering or an equivalent degree in Biotechnology / related areas. The applicant must have outstanding contribution and publication in the specific area. The candidate must have a regular permanent position in a University/Institute/Organization and should be engaged in research and development. If he/she is availing any other fellowship, he/she will have to opt for only one of the fellowships. The applicant should have spent at least 5 years in India before applying for the fellowship. Evidence of outstanding track record and a deep commitment to find innovative solutions to major problems in health care, agriculture and other areas related to life sciences and biotechnology.

3. Age limit :

All the respondents are satisfied with the current age limit of less than 55 years for completion of fellowship. Therefore it is recommended that the age restriction may remain as such.

4. Tenure of Fellowship :

53.3% of respondents are satisfied by the tenure of 3 years of the fellowship however the percentage of respondents who are not satisfied by this tenure is also not less (46.7%). Therefore it is recommended that the tenure of Tata Innovative Fellowship should also be 5 years like J.C Bose fellowship which should be extendable on fresh proposal as many research do not get completed in the stipulated tenure of 3 years.

5. Information related to fellowship :

a. Dissemination of Information: The observation on the dissemination of information related to various aspects of fellowship are in favor of print media i.e Journals and magazines of respective host institutes and Department of Biotechnology. Therefore it is recommended that DBT should use Print media more effectively as method for disseminating of the information in addition to other methods .

b. Availability of information : All respondents are satisfied on the effectiveness and readily availability of the information related to the fellowship .

6. Other Recommendations :

- a. Majority of respondents (86.7%) find it easy in getting the information from the Department of Biotechnology.
- b. The majority of the respondents (86.7%) find the proforma of application for applying for this fellowship clear. It is easily understandable. Therefore it is recommended that the proforma should remain the same.
- c. Majority of the respondents (66.7%) are of the opinion that it takes more than 3 months for a funding body i.e DBT to take decision regarding the nomination of the fellows for this fellowship. Moreover out of this 66.7% of the respondents only 6.7% of respondents say that it is even more than 6 months. It is recommended that DBT should reduce the time in taking decisions regarding the nomination of fellowship.
- d. Majority of the respondents (86.7%) are satisfied by the taken time taken in releasing the fund and receiving it.
- e. There are different fellowships of similar nature given by different agencies like DBT & DST under the same Ministry of Science & Technology .Though their nature & objective is same but the benefits are different. It is recommended that these fellowships should be merged into one fellowship with uniform benefits so that recipients do not compare the fellowships & number of recipients should be increased.
- f. It is recommended that there should be prize and award ceremony where certificates for getting these fellowships should be given. This will motivate other scientists also to contribute in field of Science & Technology.

REFERENCES

- www.dst.gov.in
- www.dbtindia.nic.in
- www.csir.hrdg.res.in
- www.igcear.ernet.in
- www.ncbs.res.in
- www.iiserkol.ac.in
- www.icgeb.org
- www.jncasr.ac.in
- www.iitk.ac.in
- www.ict.edu.in
- www.rri.res.in
- www.iisc.ernet.in
- www.tifr.res.in
- www.arci.res.in
- www.isical.ac.in
- www.nipgr.res.in
- www.iicb.res.in
- www.uohyd.ac.in
- www.iitd.ac.in
- www.nii.res.in
- www.thsti.res.in
- www.ils.res.in
- www.serb.gov.in
- www.mrcindia.org
- Annual Reports 2006-2013-Department of Science and Technology
- Annual Reports 2007-2013-Department of Bio-technology

ANNEXURE

➤ **BLANK QUESTIONNAIRE**

QUESTIONNAIRE

The Project
Analysis of selected fellowships awarded during
2006-2013 in the field of S&T

Sponsored by
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF SCIENCE & TECHNOLOGY
NEW DELHI-110016

QUESTIONNAIRE

[Please read the instructions before filling the questionnaire]

INSTRUCTIONS FOR FILLING UP THE QUESTIONNAIRE

- 1) Please give complete information on all the items. If the space provided in the questionnaire is inadequate, please use additional sheets.
- 2) Please contact the Principal Investigator, Dr. Vibhuti for seeking any clarification.
- 3) The completed Questionnaire should be returned to:

**Dr.Vibhuti
Principal Investigator
Professor & Head (MBA)
Raj Kumar Goel Institute of Technology,
5 km. Stone, Delhi-Meerut road,
Ghaziabad, UP-201003.
Mobile: +91-9868585383
Phone: 0120-2788273
Fax: +91-120-2788350
Email: dstproject@rkgit.edu.in,
drvibhuti@rkgit.edu.in**

SECTION A: GENERAL INFORMATION

Q1. Recipient's details:

Name:.....

E-mail ID:

Alternate E-mail id:.....

Date of Birth:..... Gender:

M/F.....

Phone Number with Code:.....Mob:.....

Present place of Work (Address):.....

Area of specialization:.....

Q2. Fellowship(s) Availed: Fellowship Category: [please tick (✓)]

1.	J.C. Bose National Fellowship	
2.	Ramanujan Fellowship	
3.	Ramalingaswamy Re-entry Fellowship	
4.	Tata Innovation Fellowship	
5.	Other awards & fellowships	

Major Area of Research/Study:

Research Institute during fellowship awarded:

Year of Award :

Q3. Reason for choosing the current fellowship for the same period?

.....

SECTION B

(ABOUT THE FELLOWSHIP GRANTED)

Q1. How did you come to know about the Fellowship? [Please tick (✓)]

a.	Websites of the concerned scientific department	DBT
		DST
b.	Academic Institutions	
c.	Offered by Funding Agencies	
d.	Referred by someone	
e.	Mass Media (News Paper/Television/Magazines etc.)	

f.	Others (please specify):	
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Q2. Is the information regarding the nominations of fellowship being made available effectively? [Please tick (✓) any one]

a.	Yes / No	
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Q3. Which method of dissemination of information regarding the nomination of fellowship would you suggest? [You can tick (✓) one or more]

a.	Print media – Magazines, Journals, Newspaper etc.	
b.	E-Media – Websites, email etc.	
c.	Awareness – Seminars, Campaigns etc.	
d.	Tele Media – Television, Radio etc.	
e.	Offered by someone	

Q4. Is the amount of fellowship Adequate to Attract the Scientists?

a.	Yes / No	
b.	If no, please comment :	

Q5. Do you have any observation related to?

a. Eligibility criteria for nomination for the grant of fellowship:

A.	Satisfied / Not Satisfied	
B.	If not, please comment:	

b. Restriction on age limit of the applicant:

A.	Satisfied / Not Satisfied	
B.	If not, please comment:	

Q6. Please give your observation related to grants given for various heads:

Various Heads		Satisfactory	Not Satisfactory	NA ^{**}
a.	Personal Grant			
b.	Research Grant			
c.	House Rent Allowance			

NA^{**} - Not applicable

Q7. Do you suggest addition of grant for any other aspect/ item?

a.	Yes / No	
b.	If yes, please tick (✓)	
i)	Children education	
ii)	Transfer of family allowance	
iii)	Any other (please specify)	

Q8. Please comment:

Sr.	Feature				
a.	Getting information from the DBT/DST	Easy	Time Consuming		
b.	Clarity in proforma for application	Yes	No		
c.	Time taken in decision making by Funding agencies	Reasonable (Upto 3 months)	3 – 6 months	More than 6 months	
d.	Time taken in receiving funds after approval	Satisfactory	Long		

Q9. Why did you choose this institute for research work? (Please (✓) tick)(Only for Ramanujan & Ramalingaswamy Fellows)

1.	Already Existing relationship	
2.	State of the art facilities	
3.	Competent Peer group	
4.	Availability of resources	
5.	Personal reasons	
6.	Any other, (please specify)	

Q10. Please give your observation related to various facilities at the host institute:(Only for Ramanujan & Ramalingaswamy Fellows)

	Various facilities	Excellent	Satisfactory	Not Satisfactory
a.	Workplace			
b.	Equipments			
c.	Receptiveness by employees of host institute			
d.	Interpersonal relations			
e.	Future prospects of employment			
f.	Peer Group Interactions			
g.	Secretarial Assistance/ Manpower			
	Any other, (please specify & comment)			

Q11. Do you have any observations on:

a. Procedure for recruitment of manpower for their project?

A.	Flexible & Convenient	
B.	Rigid & Time Consuming	

b. Procedure for procurement of equipment and consumables.

A.	Flexible & Convenient	
B.	Rigid & Time Consuming	

c. Tenure for which fellowships is given.

A.	Adequate	
B.	If no, please suggest the period:	

Q12. If there is any other aspect of the fellowship you intend to comment for improvement, please elaborate:

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