

Tele : 23007323  
Fax: 23007853

ARDB/01/1041813 /M/I  
Govt of India  
Ministry of Defence  
Aeronautics R&D Board  
DRDO HQrs, Bhawan,  
New Delhi-110011

2<sup>nd</sup> Sep 2016

**GRANT-IN-AID SCHEME OF AERONAUTICS R&D BOARD**

1. Under the powers vested in the Aeronautics R&D Board vide Govt. of India, Ministry of Defence letter No. Aero/4806/5/69/105/S/D(R&D) dated 12 Feb 71 and in exercise of power delegated vide SI No.3.1 of Gol, MoD letter No DRDO/DBFA/83226/M/01/2031/D(R&D) dated 30 Jul 2010, I hereby accorded the sanction for the following project for the year **2016-2017**.

**TITLE OF THE PROJECT:** Studies on Pitch, Yaw and Roll Control through Secondary Injection in a Transitional Convergent-Divergent Nozzle

**SANCTION** for the First year funds to be released during the year 2016-17 to the tune of **Rs 4.70** lakhs is accorded.

2. Total estimated funds for the project is **Rs 7.26 lakhs** However, the same is subject to revision based on performance and review. The year-wise break-up is given below:-

S. No.	HEAD	Ist Year (in lakhs)	IInd Year (6 months) (in lakhs)
(a)	Staff Salary	3.00	1.50
(b)	Equipments	0.75	0.50
(c)	Consumables	0.25	0.10
(d)	Contingency	0.20	0.105
(e)	Travel (TA/DA)	0.30	0.25
(f)	Overheads	0.20	0.105
	<b>Total</b>	<b>4.70</b>	<b>2.56</b>

Grand Total = Rs 7.26 lakhs (Seven lakhs twenty six thousand only)

...2.

3. Funds for subsequent year(s) will be released on satisfactory progress and submission of annual progress report by PI to the Panel and Sectt. and based on Panel recommendation with due approval of competent authority. Statement of accounts and utilisation certificate duly certified by the competent audit authority of the Institution is also required to be submitted along with the annual report. Excess expenditure, beyond the yearly sanction, unless authorised **by AR&DB in writing, shall be the responsibility of the grantee institutions.**
4. The duration of the project is **Eighteen months.** The date of receipt of the grant would be reckoned as the commencement date of the project which has to be intimated to this Sectt. without any ambiguity.
5. A separate account for the grant would be maintained by **Bharath Institute of Higher Education and Research, (Bharath University) Chennai** and any interest earned thereon, if any, would accrue to AR&DB.
6. The grantee institution shall incorporate necessary clause to provide reservation for SC & ST or OBC in posts and services for appointing project staff under grant-in-aid scheme.
7. On completion of the project unspent balance if any should be deposited through MRO at your end against AR&DB sanction project No. "1041813" to the PCDA (R&D), New Delhi A/C No. 4055000004. Thereafter, a copy of the MRO duly receipted may be sent to PCDA (R&D), West Block-V, RK Puram, New Delhi-110066 under intimation to AR&DB Sectt with a copy of MRO for necessary records.
8. A list of inventory of equipment purchased out of AR&DB grant shall be intimated year wise alongwith its cost and source of procurement to AR&DB Sectt. On completion of the project, the grantee institution would forward the consolidated list with request, if any, for retention of any equipment for another project of in-house R&D, with due recommendations of their executive authority and the concerned panel.
9. The grantee institutions shall not disclose any information under RTI ACT,2005 as DRDO is placed under second schedule and is exempted from disclosure of information under Sec 24(i) of the Act except information pertaining to the allegation of corruption and Human Right Violation.
- (i) In case any application is received by the grantee institution for seeking information pertaining to DRDO project under RTI Act 2005, it may not be replied to directly and the same shall be transferred to CPIO,DRDO, HQ for necessary action and reply under sec(63) of the RTI Act at the following address:

314A, 'B' Block, RTI Cell  
DRDO Bhawan, Rajaji Marg, New Delhi-110011

10. Instruction and Conditions of Ownership of intellectual properties generated by this project is available in [www.drdo.com/boards/ardb/rules & grants-patents.htm](http://www.drdo.com/boards/ardb/rules & grants-patents.htm).
11. Instruction and Conditions of Publication of Technical Papers related to this project is available in [www.drdo.com./boards/ardb/rules & grants-report3.htm](http://www.drdo.com./boards/ardb/rules & grants-report3.htm)
12. On completion of the projects, Closure Report along with copies of technical report for each Panel member and also one soft copy to Sectt. may be submitted within sixty days of completion of project along with Statement-2 (Statement of Expenditure) & Statement-3 (Utilisation Certificate) as per Annexure III of Grant-in-aids rules duly audited from the Competent Audit Authority of Institution/organization signed in ink in duplicate.
13. PCDA(R&D), West Block V, RK Puram, New Delhi-110066 will make disbursement of money as sanctioned.
14. The expenditure will be debited to Major Head 2080 – Defence Services, R & D, Minor Head 004-Research/Research & Development and Code Head 852/02 (AR&DB Grant-in-aid) of Defence Services Estimates.
15. Contingent bill (in triplicate) duly completed, stamped alongwith ECS mandate form and certificate from the Institute that no UCs are pending from the PI/Institute may please be forwarded to us within 30 days for countersignature and onward transmission to PCDA(R&D), West Block V, RK Puram, New Delhi-110066 for payment.
16. This has issued with the concurrence of the IFA(R&D), New Delhi vide their U.O. No 1956/0536 dated 26 Aug 2016.
17. Sanction Code is MSRB/TM/ARDB/GIA/16-17/0056 dated 02 Sep 2016.

*Kuldeep Singh*  
(Kuldeep Singh)  
Secretary AR&DB

To  
The Registrar  
Bharatha Institute of Higher Education and Research  
No 173, Agharam Then Road,  
Selaiyur, Chennai-600073

**Copy to :-**

Principal CDA(R&D),  
West Block V, RK Puram,  
New Delhi-110066

IFA (R&D), DRDO Bhawan, New Delhi

Dy. Director of Audit Defence Services,  
Southern Command, Pune

Principal Director of Audit Air Force & Navy,  
'M' Block, N. Delhi-110 001

Director General of Audit, Defence Services,  
L-II Block, Brassey Avenue  
New Delhi-110001

Dr. A.R. Upadhy (Convenor TC)  
Dr Raja Ramana DRDO Distinguish Fellow  
ADA, Vimanpura post office Bangalore – 560 017

Dr M Sundaraj (PI)  
Dept of Aeronautical Engineering  
Bharath Institute of Higher Education and Research  
No 173, Agharam Then Road,  
Selaiyur, Chennai-600073  
Email : [sundarsonic@yahoo.com](mailto:sundarsonic@yahoo.com)  
[hodaero@bharathuniv.ac.in](mailto:hodaero@bharathuniv.ac.in)

Dr V Ramanujachari (Coordinator PP)  
Director  
Research & Innovation Centre  
IIT Madras Research Park, Kanagam Road  
Taramani, Chennai-600113  
Fax : 044-22548215

Control No. 056 (2016 - 2017)



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்  
TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)

Directorate of Technical Education Campus, Chennai - 600 025

Phone : 044 - 2230 1428

Web : www.tancst.nic.in

Telefax : 044 - 2230 1552

E-mail : ms.tancst@nic.in/enquiry.tancst@nic.in

DR. R. SRINIVASAN, M.Sc., Ph.D., F.I.C.S., M.A.C.S. (USA).

Member Secretary

C. No.TNSCST/STP-PRG/AR/2018-2019

9307

04.11.2019

To  
Dr A Manikandan  
Associate Professor  
Dept. of Chemistry  
Bharath Institute of Hr. Education and Research  
Chennai-600073

Sir/Madam,

Sub: TNSCST – S&T Project on "Green Synthesis methods magneto-optical and catalytic properties of spinel M-doped  $AF_2O_4$  nanostructures" – Approval intimation – Reg.

Ref: Your proposal dated

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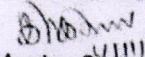
I am happy to inform you that State Council has approved your above cited research proposal for funding. A copy of the terms and conditions governing the grant is enclosed herewith for your reference. You may kindly reply **within a week time** as to whether it is agreeable to take up the research project with our terms and conditions and the approved budget is Rs.4,13,000/- for **Two** years. First year approved grant will be Rs.2,44,000/- (Rupees Two lakh and forty four thousand only).

You have to submit a declaration stating that the above cited "project has not receiving any funds from any other funding agency".

All communication should be sent through the proper channel.

With best wishes.

Yours faithfully,

  
Member Secretary

Encl: as above  
Copy to:  
The Registrar  
Bharath Institute of Hr. Education and Research  
Chennai-600073



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்  
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DR. R. SRINIVASAN, M.Sc., Ph.D., F.I.C.B., M.A.C.S. (USA)

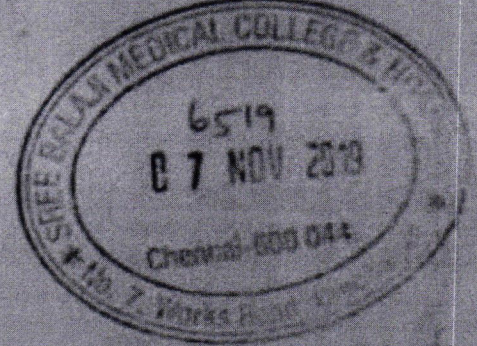
Member Secretary

C. No. TNSCST/STP-PRG/AR/2018-2019

9320

04.11.2019

To  
Dr. Flonda Tilton  
Chief Scientist  
Research Centre for Cellular Genomics  
Sree Balaji Medical College & Hospital  
Chrompet, Chennai 600044



Sir/Madam

Sub: TNSCST - S&T Project on "Development of TETRA-ARMS PCR based cost effective, rapid diagnostic method for screening obesity & diabetic linked gene polymorphism in polycystic ovarian syndrome (PCOS) among South Indian Tamil population" -Approval intimation - Reg.

Ref: Your proposal dated 14.08.2019

I am happy to inform you that State Council has approved your above cited research proposal for funding. A copy of the terms and conditions governing the grant is enclosed herewith for your reference. You may kindly reply **within a week** time as to whether it is agreeable to take up the research project with our terms and conditions and the approved budget is Rs.3,60,000/- for Two years. First year approved grant will be Rs. 2,30,000/- (Rupees Two lakh and thirty thousand only).

You have to submit a declaration stating that the above cited project has not receiving any funds from any other funding agency.

All communication should be sent through the proper channel.

With best wishes,

Yours faithfully,

Member Secretary

Encl. as above

Copy to

The Principal

Sree Balaji Medical College & Hospital

Chrompet, Chennai 600044



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்

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Telefax : 044 - 2230 1552

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**DR. R. SRINIVASAN**, M.Sc., Ph.D., F.I.C.S., M.A.C.S. (USA).

Member Secretary

C. No.TNSCST/STP/ MS/02/VR/2018-2019

9259

04.11.2019

To  
Dr.K.Padmavathi  
Associate Professor  
Dept. of Microbiology  
Sree Balaji Dental College and Hospital  
Chennai – 600 100

Sir/Madam,

Sub: TNSCST – S&T Project on “Development of Grape Seed Proanthocyanidin and Banana Flower Extract as Potential Therapeutic Agents for Gastric Cancer” –Approval intimation – Reg.

Ref: Your proposal dated 16.02.2019

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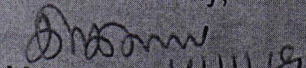
I am happy to inform you that State Council has approved your above cited research proposal for funding. A copy of the terms and conditions governing the grant is enclosed herewith for your reference. You may kindly reply **within a week time** as to whether it is agreeable to take up the research project with our terms and conditions and the approved budget is Rs.3,90,000/- for **Two** years. First year approved grant will be Rs. 1,70,000/- (Rupees One lakh and seventy thousand only)

You have to submit a declaration stating that the above cited “project has not receiving any funds from any other funding agency”.

All communication should be sent through the proper channel.

With best wishes,

Yours faithfully,

  
Member Secretary

Encl: as above

Copy to:  
The Principal  
Sree Balaji Dental College and Hospital  
Chennai – 600 100

FILE NO. CRG/2019/005689  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
(A statutory body of the Department of Science & Technology, Government of India)

5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Plot No. A, Community Centre  
Sector-B, Pocket-5, Vasant Kunj  
New Delhi-110070

Dated: 06-Feb-2020

**ORDER**

Subject: Financial Sanction of the research project titled "Title: Reducing the burden of Orthodontic Care for children with Clefts: Evaluating the effectiveness of Pre-alveolar Bone Graft Orthodontics in unilateral non-syndromic Cleft patients (PABO Study)" under the guidance of Dr. badri thiruvengkatachari, Dental sciences, Bharath Institute of Higher Education and Research(Bharath University), 173,Agharam Road,Selayur,Chennai, TAMIL NADU-600073 and by Dr. Arvind Sivakumar, Senior Lecturer, Department Of Orthodontics, Saveetha Institute Of Medical And Technical Sciences - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 3138600/- (Rs. Thirty One Lakh Thirty Eight Thousand Six Hundred Only) with break-up of Rs. 579600/- under Capital (Non-recurring) head and Rs.2559000/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 3138600/- has been approved are given below:

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> Surgical equipments	579600
<b>A'</b>	<b>Total (Non-Recurring)</b>	<b>579600</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - I : (Manpower) Recurring - II : ( Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1164000 1100000 10000
2	Recurring - IV : (Overhead Charges)	285000
<b>B'</b>	<b>Total (Recurring)</b>	<b>2559000</b>
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>3138600</b>

2. Sanction of the SERB is also accorded to the payment of Rs. 579600/- (Rupees Five Lakh Seventy Nine Thousand Six Hundred only) under 'Grants for creation of capital assets' and Rs. 859666/- (Rupees Eight Lakh Fifty Nine Thousand Six Hundred and Sixty Six only) under 'Grants-in-aid General' to Registrar, Sree Balaji Dental College, BIHER, Bharath Institute Of Higher Education And Research(Bharath University), 173,Agharam Road,Selayur,Chennai being the first installment of the grant for the year 2019-2020 for implementation of the said research project.

3. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER)  
This release is being made under Core Research Grant. (Biomedical and Health Sciences)

4. The Sanction has been issued to Bharath Institute Of Higher Education And Research(Bharath University), 173,Agharam Road,Selayur,Chennai with the approval of the competent authority under delegated powers on 05 February, 2020 and vide Diary No. SERB/F/9744/2019-2020 dated 05 February, 2020

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.

9. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

10. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

11. The release amount of Rs. 1439266/- (Rupees Fourteen Lakh Thirty Nine Thousand Two Hundred and Sixty Six only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given

below:

PFMS Unique Code	127912791279
Account Name	BIHER- Research and Consultancy
Account Number	6670628110
Bank Name & Branch	INDIAN BANK SELAYUR, CHENNAI
IFSC/RTGS Code	IDIB000S246
Email id of A/C Holder	deanresearch@bharathuniv.ac.in
Email id of PI	badri.t.chari@gmail.com

12. The institute will furnish to the SERB, separate Utilization certificate (UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

13. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

14. The project File no. CRG/2019/005689 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

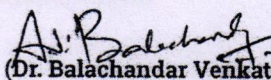
15. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project

16. As this is the first grant being released for the project, no previous U/C is required.

17. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

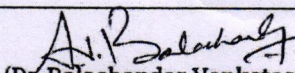
19. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board.

  
(Dr. Balachandar Venkatesan)  
Scientist E  
ms\_hs@serbonline.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	<p>Dr. badri thiruvengkatachari Dental sciences Bharath Institute of Higher Education and Research (Bharath University), 173, Agharam Road, Selaiyur, Chennai, TAMIL NADU-600073 Email: badri.t.chari@gmail.com Mobile: 917358483837</p> <p>Dr. Arvind Sivakumar Department Of Orthodontics Saveetha Institute Of Medical And Technical Sciences (Start date of the project may be intimated by name to the undersigned. For guidance, terms &amp; Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a>.)</p>
5.	<p>Registrar, Sree Balaji Dental College, BIHER, Bharath Institute Of Higher Education And Research (Bharath University), 173, Agharam Road, Selaiyur, Chennai</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

  
(Dr. Balachandar Venkatesan)  
Scientist E  
ms\_hs@serbonline.in