



**SRI SIVASUBRAMANIYA NADAR COLLEGE OF
ENGINEERING**

(An Autonomous Institution)
Kalavakkam – 603 110

SELF STUDY REPORT

3.2.1 Research funding received by the institution and its faculties through Government and non-government sources such as industry, corporate houses, international bodies for research project, endowment research chairs during the last five years

Submitted to

The National Assessment and Accreditation Council

February 2024



Thenmozhi D <theni_d@ssn.edu.in>

SERB-Notification

SERB_Administrator@serbonline.in <SERB_Administrator@serbonline.in>
To: serbinfo1@gmail.com

Mon, Jul 27, 2020 at 11:54 AM



Science and Engineering Research Board
(Statutory Body Established Through an Act of Parliament : SERB Act 2008)
Department of Science and Technology, Government of India

FILE NO. EEQ/2018/000262

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: 15-Jul-2020

ORDER

Subject: Research project entitled "**An Automated Tool for Early Detection of Depression from Social Media Text for Mental Health using Deep Learning Approach to Assist Student Counsellors and Psychiatrists of Hospitals in India**" under the guidance of Dr. Thenmozhi Doraiaj, Computer Science and Engineering, SSN College of Engineering, Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam, Kanchipuram, Tamil nadu-603110.

1. This is in continuation of SERB's sanction order No. "EEQ/2018/000262" dated "15 February, 2019 " of **Science and Engineering Research Board (SERB)**.

2. Sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 400000/-** (Rupees Four Lakh only) under 'Grants-in-aid General' to **PRINCIPAL, SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam** being the 2nd grant for the financial year 2020-2021 for implementation of the above said project.

3. Sanction of the competent authority is also accorded to the carry forward of unspent balance of **Rs. 247216/-** (Rupees Two Lakh Forty Seven Thousand Two Hundred and Sixteen only) (Recurring Rs. 240494 and Non-Recurring Rs. 6722) to SSN College of Engineering, Sri Sivasubramaniya Nadar College of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam from FY 2019-2020 to FY 2020-2021 for the same purpose for which it was sanctioned.

4. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in).

5. It is certified that provision of GFR 212 relating to Utilization Certificates (Ucs) for the funds released under the grant have been satisfied and the UC/s is/are enclosed herewith.

6. The expenditure involved is debitable to **Fund for Science & Engineering Research (FSER)**

This release is being made under Empowerment and Equity Opportunities for Excellence in Science. (Task force Committee) (SC)

7. The Sanction has been issued to SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam with the approval of the competent authority under delegated powers on **14 July, 2020** and vide Diary No. **SERB/F/1472/2020-2021** dated **15 July, 2020**

8. The release amount of **Rs. 400000/-** (Rupees Four Lakh only) (Recurring Rs. 400000 and Non-Recurring Rs. 0) 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	NA
Account Name	THE PRINCIPAL, SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING
Account Number	158100050070022
Bank Name & Branch	TAMILNAD MERCANTILE BANK LTD., THIRUVANMIYUR BRANCHNO.3, THIRUVALLUVAR SALAI , THIRUVANMIYURCHENNAI 600 041. TAMILNADU
IFSC/RTGS Code	TMBL0000158
Email id of A/C Holder	info@ssn.edu.in
Email id of PI	theni_d@ssn.edu.in

9. 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.

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

11. The institute will furnish to the SERB, Utilization certificate(separate for Recurring & Non-Recurring) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

12. After completion of the project unspent balance if any should be returned as Demand Draft drawn in favour of "Fund for Science and Engineering Research" payable at New Delhi.

13. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

14. 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, a statutory body of Department of Science & Technology (DST), Government of India.

(Dr. Pramod Kumar Prasad)

Scientist-D

pk.prasad@serb.gov.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, Illrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB , New Delhi.
3.	File Copy
4.	Dr. Thenmozhi Doraiaj Computer Science and Engineering SSN College of Engineering , Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam , Kanchipuram, Tamil nadu-603110 Email: theni_d@ssn.edu.in Mobile: 919884054239
5.	PRINCIPAL, SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam

(Dr. Pramod Kumar Prasad)

Scientist-D

pk.prasad@serb.gov.in

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No. TDP/BDTD/09/2021 (General)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(Technology Development & Transfer)

Technology Bhavan,
New Mehrauli Road, New Delhi
Dated 04.03.2021

ORDER

Sub: - Financial assistance for project entitled 'Design and development of 16 channel functional near infrared spectroscopy system for measuring hemodynamics in brain prefrontal cortex' by Dr. Bagyaraj S., Associate Professor, Deptt. of Biomedical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Kacheepuram, Tamil Nadu – **Project sanction and release of first installment** regarding.

Sanction of the President is hereby accorded to the approval to the above-mentioned project at a total cost of **Rs. 25,33,872/- (Rupees Twenty-five Lakh Thirty-three Thousand Eight Hundred Seventy-two only)** for the duration of **24 months**. The detailed break-up of the grant is given below: -

General Component = **Rs. 25,33,872 /-**

S. No.	Items	Budget (Rs. in Lakhs)		
		Year-I	Year-II	Total
1.	Manpower (1 JRF @ Rs. 31,000/- + 8% HRA)	4,01,760	4,01,760	8,03,520
2.	Consumables	10,50,000	2,50,000	13,00,000
3.	Travel	50,000	50,000	1,00,000
4.	Contingency	50,000	50,000	1,00,000
5.	Overheads @ 8%	1,55,176	75,176	2,30,352
	Total	17,06,936	8,26,936	25,33,872

2. The sanction of the President is also accorded to the release of **Rs. 17,06,936/- (Rupees Seventeen Lakh Six Thousand Nine Hundred Thirty-six only)** to The Principal, Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam being the first installment of grant as mentioned in the above table.

3. This sanction is accorded with the stipulation that continuation of the project beyond 31/03/2021 will be subject to the appraisal and approval of the umbrella scheme "Innovation, Technology Development and Deployment" under which the project is funded.

4. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grant received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

5. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

6. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the release Capital head grant.

Handwritten signature
4/3/21

7. The grant-in-aid being released is subject to the condition that:-
- a) A transparent procurement procedure in line with Provisions of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.
 - b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to be ensure submission of supporting documentary evidences with regard of the purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
8. As per the GFR 2017 Rule 230 (8) the Grantee Institute should ensure that all the interests or other earnings against Grant-in-Aid or advances (other than reimbursement) released to any Grantee institution should be mandatorily remitted to the Consolidated Fund of India immediately after finalization of the accounts. Such advances will not be allowed to be adjusted against future releases.
9. As per the GFR 2017 Rule 230 (17) "the Grantee Institute should agree to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under its control on the lines indicated by the Government of India".
10. As per the GFR 2017, it is mandatory for the grantee organization to purchase the equipment through the Government e-Marketplace (GeM), to the extent available there as the project involves government funding.
11. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. www.bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of Grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/ Utilization Certificate for considering subsequent release of Grant/ Closure of Project accounts.
12. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
13. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.
14. Due acknowledgement of technical support/ financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publication / media release as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
15. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
16. The expenditure involved is debatable to Demand No. 87, Department of Science & Technology for the year 2020-21:

3425	Other Scientific Research (Major Head)
60	Others
60,200	Assistance to Other Scientific Bodies (Minor Head)
70	Innovation Technology Development & Research

17. The amount of Rs. 17,06,936/- (Rupees Seventeen Lakh Six Thousand Nine Hundred Thirty-six only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to "The Principal, Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam.

18. The bank details for electronic transfer of funds through RTGS are given below:-

Name of A/C Holder	The Principal, Sri Sivasubramaniya Nadar College of Engineering
Bank A/C No	158100050070022
Name of the Bank & branch	Tamilnad Mercantile Bank Ltd.
IFSC code	TMBL0000158

19. As per Rule 234 of GFR 2017, the sanction has been entered at S. No. 355 in the register of grants maintained in the Division for the scheme BDTD.

20. This issue with the concurrence of IFD vide their Concurring Dy. No. C/5468/IFD/2020-21 dated 04.03.2021.

File
4/3/21
(Dr. Anita Aggarwal)
Scientist-F

To.

The Pay and Accounts Officer
Department of Science & Technology
New Delhi.

Copy of information and necessary action to: -

1. The Principal Director of Audit, Environment and Scientific Department, 3rd floor, AGCR Building, I.P. Estate, New Delhi.
2. Drawing and Disbursing Officer, DST, Cash Section. (two copies)
3. The Controller of Accounts, DST
4. IFD, DST
5. Head (TDT), DST
6. Office Copy
7. The Principal, Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam.
8. Dr. Bagyaraj S. Associate Professor, Deptt. of Biomedical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Kacheepuram, Tamil Nadu.
9. Dr. S Arun Karthick, Associate Professor, Deptt. of Biomedical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Kacheepuram, Tamil Nadu
10. Dr. Sachin Gaurishankar Sarate, Full time Doctor-cum-Assistant Professor, Deptt. of Biomedical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Kacheepuram, Tamil Nadu
11. Mr. M. Karthikeyan, Director, Nissi Engineering Solution Pvt. Ltd., No.14, Shanthi Street, Cholaapuram, Ambattur, Chennai
12. File copy (E-32969)

File
4/3/21
(Dr. Anita Aggarwal)
Scientist-F

FILE NO. CRG/2020/003042
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: 23-Mar-2021

ORDER

Subject: Financial Sanction of the research project titled "**Development of Multi-spectral (Thermal/Visible) Imaging System for Fever Screening in Crowded Places for Detection of Infectious Diseases**" under the guidance of Dr. Palani Thanaraj Krishnan, Electronics and Instrumentation, St Josephs College of Engineering, Old mamallapuram road, near sathyabhama campus, semmencherry, chennai, Kanchipuram, Tamil nadu-600119 and by Dr. Parvathavarthini B, Professor And Dean, CSE, St Josephs College Of Engineering and by Dr. Vijay Jeyakumar, Associate Professor, Biomedical Engineering, Sri Sivasubramaniya Nadar College Of Engineering - 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. 1161629/-** (Rs. Eleven Lakh Sixty One Thousand Six Hundred and Twenty Nine Only) with break-up of **Rs. 514747/-** under Capital (Non-recurring) head and **Rs. 646882/-** under General (Recurring) head for a duration of 24 months. The items of expenditure for which the total allocation of **Rs. 1161629/-** has been approved are given below:

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Digital Camera -> Thermal Camera	514747
A'	Total (Non-Recurring)	514747
B	Recurring Items	
1	Recurring - I : (Manpower)	461280
	Recurring - II : (Consumables, Travel, Contingencies)	70000
	Recurring - III : Scientific Social Responsibility	10000
2	Recurring - IV : (Overhead Charges)	105602
B'	Total (Recurring)	646882
C	Total cost of the project (A' + B')	1161629

2. Sanction of the SERB is also accorded to the payment of **Rs. 514747/-** (Rupees Five Lakh Fourteen Thousand Seven Hundred and Forty Seven only) under 'Grants for creation of capital assets' and **Rs. 328441/-** (Rupees Three Lakh Twenty Eight Thousand Four Hundred and Forty One only) under 'Grants-in-aid General' to **Principal, St Josephs College Of Engineering, Old Mamallapuram Road, Near Sathyabhama Campus, Semmencherry, Chennai** being the first installment of the grant for the year 2020-2021 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. (PAC Electrical Electronics & Computer Engineering)**

4. The Sanction has been issued to St Josephs College Of Engineering, Old Mamallapuram Road, Near Sathyabhama Campus, Semmencherry, Chennai with the approval of the competent authority under delegated powers on **23 March, 2021** and vide Diary No. **SERB/F/8770/2020-2021** dated **23 March, 2021**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (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. 843188/-** (Rupees Eight Lakh Forty Three Thousand One Hundred and Eighty Eight 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	SJISTRDP
Account Name	St Josephs college of Engineering R and D Projects
Account Number	705270386
Bank Name & Branch	Indian Bank Indian Bank, JEC Branch, Semmancherry, Chennai 600119
IFSC/RTGS Code	IDIB000J037
Email id of A/C Holder	principal@stjosephs.ac.in
Email id of PI	palanithanaraj.k@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/2020/003042 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

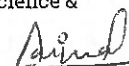
15. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project

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.

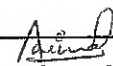
19. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board.



(Dr. Anima Johari)
Scientist D
anima.johari@serb.gov.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.	Dr. Palani Thanaraj Krishnan Electronics and Instrumentation St Josephs College of Engineering, Old mamallapuram road, near sathyabhama campus, semmencherry, chennai, Kanchipuram, Tamil nadu-600119 Email: palanithanaraj.k@gmail.com Mobile: 919884735283 Dr. Parvathavarthini B CSE St Josephs College Of Engineering Dr. Vijay Jeyakumar Biomedical Engineering Sri Sivasubramaniya Nadar College Of Engineering (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	Principal, St Josephs College Of Engineering, Old Mamallapuram Road, Near Sathyabhama Campus, Semmencherry, Chennai (Receipt of Grant may be intimated by name to the undersigned)



(Dr. Anima Johari)
Scientist D
anima.johari@serb.gov.in

FILE NO. SPG/2021/001684
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: 30 June, 2021

ORDER

Subject: Financial Sanction of the research project titled **Augmented Reality based Surgical Support System** under the guidance of Dr. Kavitha Anandan, Biomedical Engineering, SSN College of Engineering, Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam, Kanchipuram, Tamil nadu-603110 and by Dr. Pravin Kumar S, Associate Professor, Biomedical Engineering, SSN College Of Engineering and by Dr. G SUDHIR, ASSISTANT PROFESSOR AND CONSULTANT ORTHO SPINE SURGEON, Orthopedic And Spine Surgery, Sri Ramachandra Medical College And Research Institute - 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. 2593932/-** (Rs. Twenty Five Lakh Ninety Three Thousand Nine Hundred and Thirty Two Only) with break-up of **Rs. 826000/- under Capital (Non-recurring) head** and **Rs.1767932/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 2593932/-** has been approved are given below:

S.No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Mannequins -> Hololens -> Optical Trackers Camera and Software	826000
A'	Total (Non-Recurring)	826000
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1257120 275000 0
2	Recurring - IV : (Overhead Charges)	235812
B'	Total (Recurring)	1767932
C	Total cost of the project (A' + B')	2593932

- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).
- 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.
- 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.
- Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.
- 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.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
- 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.
- 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.
- 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
- 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.

12. The project File no. SPG/2021/001684 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by SERB should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

13. 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 SERB.

14. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project become operational from the day the first release of grant received by the implementing Institute.

Monika Agarwal
(Dr. Monika Agarwal)
Scientist F
monika@serb.gov.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.	Dr. Kavitha Anandan Biomedical Engineering SSN College of Engineering, Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam, Kanchipuram, Tamil nadu-603110 Email: kavithaa@ssn.edu.in Mobile: 919677057669 Dr. Pravin Kumar S Biomedical Engineering SSN College Of Engineering Dr. G SUDHIR Orthopedic And Spine Surgery Sri Ramachandra Medical College And Research Institute (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	PRINCIPAL, SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam (Receipt of Grant may be intimated by name to the undersigned)

Monika Agarwal
(Dr. Monika Agarwal)
Scientist F
monika@serb.gov.in

FILE NO. SPG/2021/001684-G

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: 30 June, 2021 ✓

ORDER

Subject: Research project entitled **Augmented Reality based Surgical Support System** under the guidance of Dr. Kavitha Anandan, Biomedical Engineering, SSN College of Engineering, Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam, Kanchipuram, Tamil nadu-603110 and by Dr. Pravin Kumar S, Associate Professor, Biomedical Engineering, SSN College Of Engineering and by Dr. G SUDHIR, ASSISTANT PROFESSOR AND CONSULTANT ORTHO SPINE SURGEON, Orthopedic And Spine Surgery, Sri Ramachandra Medical College And Research Institute.

1. In continuation of SERB's sanction order No. SPG/2021/001684 dated 30 June, 2021, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs.1767932/-** under 'Grants-in-aid General' to SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (omr), Kalavakkam, Kanchipuram, Tamil Nadu-603110 being the grant for the financial year 2021-2022 for implementation of the above said project.

2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 30 June, 2021.

3. As this is the first grant being released under 'Grants-in-aid General' for the project, no previous U/C is required.

4. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under SERB POWER Grant (General).

5. The Sanction has been issued with the approval of the competent authority on **15 June, 2021** and vide Diary No. **SERB/F/898/2021-2022** dated **29 June, 2021**.

6. The release amount of **Rs. 588040/-** (Rupees Five Lakh Eighty Eight Thousand and Forty 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	SSNCE
Account Name	THE PRINCIPAL, SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING
Account Number	158100710400509
Bank Name & Branch	Tamilnad Mercantile Bank Thiruvannmiyur Branch No 3 Thiruvalluvar Salai Thiruvannmiyur Chennai 600041 Tamilnadu
IFSC/RTGS Code	TMBL0000158
Email id of A/C Holder	principal@ssn.edu.in
Email id of PI	kavithaa@ssn.edu.in

Monika Agarwal
(Dr. Monika Agarwal)
Scientist F
monika@serb.gov.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.	Dr. Kavitha Anandan Biomedical Engineering SSN College of Engineering , Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam , Kanchipuram, Tamil nadu-603110 Email: kavithaa@ssn.edu.in Mobile: 919677057669 Dr. Pravin Kumar S Biomedical Engineering SSN College Of Engineering Dr. G SUDHIR Orthopedic And Spine Surgery Sri Ramachandra Medical College And Research Institute (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	PRINCIPAL, SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam (Receipt of Grant may be intimated by name to the undersigned)

Monika Agarwal
(Dr. Monika Agarwal)
Scientist F
monika@serb.gov.in

FILE NO. SPG/2021/001684-C
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: 30 June, 2021

ORDER

Subject: Research project entitled **Augmented Reality based Surgical Support System** under the guidance of Dr. Kavitha Anandan, Biomedical Engineering, SSN College of Engineering, Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam, Kanchipuram, Tamil nadu-603110 and by Dr. Pravin Kumar S, Associate Professor, Biomedical Engineering, SSN College Of Engineering and by Dr. G SUDHIR, ASSISTANT PROFESSOR AND CONSULTANT ORTHO SPINE SURGEON, Orthopedic And Spine Surgery, Sri Ramachandra Medical College And Research Institute.

1. In continuation of SERB's sanction order No. SPG/2021/001684 dated 30 June, 2021, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 826000/-** under 'Grants-in-aid Capital' to SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (omr), Kalavakkam, Kanchipuram, Tamil Nadu-603110 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 30 June, 2021.
3. As this is the first grant being released under 'Grants-in-aid Capital' for the project, no previous U/C is required.
4. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under SERB POWER Grant (Capital).
5. The Sanction has been issued with the approval of the competent authority on **15 June, 2021** and vide Diary No. **SERB/F/897/2021-2022** dated **29 June, 2021**.
6. The release amount of **Rs. 826000/-** (Rupees Eight Lakh Twenty Six Thousand 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	SSNCE
Account Name	THE PRINCIPAL, SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING
Account Number	158100710400509
Bank Name & Branch	Tamilnad Mercantile Bank Thiruvannmiyur Branch No 3 Thiruvalluvar Salai Thiruvannmiyur Chennai 600041 Tamilnadu
IFSC/RTGS Code	TMBL0000158
Email id of A/C Holder	principal@ssn.edu.in
Email id of PI	kavithaa@ssn.edu.in

Monika Agarwal
 (Dr. Monika Agarwal)
 Scientist F
 monika@serb.gov.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.	Dr. Kavitha Anandan Biomedical Engineering SSN College of Engineering , Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam , Kanchipuram, Tamil nadu-603110 Email: kavithaa@ssn.edu.in Mobile: 919677057669 Dr. Pravin Kumar S Biomedical Engineering SSN College Of Engineering Dr. G SUDHIR Orthopedic And Spine Surgery Sri Ramachandra Medical College And Research Institute (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	PRINCIPAL, SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam (Receipt of Grant may be intimated by name to the undersigned)

Monika Agarwal

(Dr. Monika Agarwal)
Scientist F
monika@serb.gov.in

DST/TMD(EWO)/OWUIS-2018/TS-06 (G)

Government of India
Ministry of Science & Technology
Department of Science & Technology
Technology Mission Division (EWO)

Technology Bhavan
New Mehrauli Road
New Delhi -110 016
Dated: 08.09.2020

ORDER

Sub: Financial approval for Technology Stream: Demonstration of Lab Scale project entitled "High performance integrated two-stage electrochemical technology for recovery of water from electroplating effluent with real time monitoring & control system" under guidance of Dr. P. Jegathambal, Water Institute Department, Karunya Institute of Technology and Sciences, Karunya nagar, Coimbatore-641114 and Dr. S. Radha, Department of ECE, SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Chennai – 603 110, Tamilnadu - India - regarding release of 1st installment of the grant.

Sanction of the President is hereby accorded to the above said project at a total cost of **Rs.77,70,400/-** (Rupees seventy seven lakh seventy thousand and four hundred only) for a duration of **3** years. The items of expenditure for which total allocation of **Rs 77,70,400/-** has been approved for a period of **three** years are given below:

General Component: **Rs. 56,70,400/-**

Capital Component: **Rs. 21,00,000/-**

Consolidated budget for the project:-

(Amount in Rs.)

Budget head	KITS Coimbatore	SSN Chennai	Total
(A) Non-Recurring			
Equipment	13.00.000	8.00.000	21.00.000
Subtotal Non-Recurring	13,00,000	8,00,000	21,00,000
(B) Recurring			
Manpower	14,61,600	15,62,400	30,24,000
Consumables	7,00,000	4,00,000	11,00,000
National Travel	1,50,000	1,50,000	3,00,000
Contingencies	70,000	70,000	1,40,000
Work to be Out Sourced	2,50,000	1,50,000	4,00,000
Overhead Charges	3,93,160	3,13,240	7,06,400
Subtotal Recurring	30,24,760	26,45,640	56,70,400
Total(A+B)	43,24,760	34,45,640	77,70,400

KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Amount in Rs.)

Budget head	1 st year	2 nd year	3 rd year	Total
Non-Recurring(A)				
Equipment Spray Pyrolysis Unit, Stainless steel Rheometer, Surface Area Analyser, Electrospinning Machine	13.00.000	-	-	13.00.000
Subtotal Non-Recurring	13,00,000			13,00,000
Recurring(B)				
Manpower SRF (1) @35,000-35,000+ 16%HRA (as per DST norms)	4,87,200	4,87,200	4,87,200	14,61,600
Consumables	4,00,000	2,00,000	1,00,000	7,00,000
National Travel	50,000	50,000	50,000	1,50,000

contd on page 2/-

Approved

Contingencies	30,000	30,000	10,000	70,000
Work to be Out Sourced	1,00,000	1,00,000	50,000	2,50,000
Overhead Charges	2,36,720	86,720	69,720	3,93,160
Subtotal Recurring	13,03,920	9,53,920	7,66,920	30,24,760
Total(A+B)	26,03,920	9,53,920	7,66,920	43,24,760

SSN COLLEGE OF ENGINEERING

Budget head	1 st year	2 nd year	3 rd year	(Amount in Rs.) Total
Non-Recurring(A)				
Equipment : SILAR coating unit, Electrospinning machine, X-Ray Fluorescence Spectrometers	8,00,000	-	-	8,00,000
Subtotal Non-Recurring	8,00,000			8,00,000
Recurring(B)				
Manpower SRF (1) @ 35,000-35,000+ 24%HRA (as per DST norms)	5,20,800	5,20,800	5,20,800	15,62,400
Consumables	2,00,000	1,50,000	50,000	4,00,000
National Travel	50,000	50,000	50,000	1,50,000
Contingencies	30,000	30,000	10,000	70,000
Work to be Out Sourced	50,000	50,000	50,000	1,50,000
Overhead Charges	1,65,080	80,080	68,080	3,13,240
Subtotal Recurring	10,15,880	8,80,880	7,48,880	26,45,640
Total(A+B)	18,15,880	8,80,880	7,48,880	34,45,640

- The sanction of the president is also accorded to the initial release of **Rs. 13,03,920/- (Rupees thirteen lakh three thousand nine hundred twenty only)** disbursed to the "The Registrar, Karunya Institute of Technology and Sciences, Karunya Nagar" being the first installment of grant under **General Component** for implementation of the above mentioned project.
- The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
- If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.
- The grant-in-aid being released is subject to the condition that: -
 - A transparent procurement procedure in line with the provisions of General Financial Rules 2017 will be followed by the university/institute under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the project and a certificate to this effect will be submitted by the university/institute immediately on receipt of the grant.
 - While submitting Utilization Certificate/Statement of Expenditure, the university/institute has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent releases of grants under the project shall be considered only on receipt of the said documents.
 - The PI of the aforementioned project is requested to obtain consumables/equipment available in Government e-Marketplace (GeM) only as per Rule 149 of GFR 2017.
- As per the GFR 2017 Rule 230(8) the grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e., www.Bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/Utilization Certificate for considering subsequent release of grant/closure of project accounts. GI should also follow Rule 230(17) of GFR-2017 concerning reservation of SC/ST/OBC, if applicable.

C. R. Reddy

7. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
8. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by Principal Accounts Office of the DST), whenever the organization is called upon to do so on, as laid down under Rule 236(1) of General Financial Rules 2017.
9. Due acknowledgement of technical support/ financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications/ media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
10. Failure to comply with the terms and condition of the Bond will entail full refund with interest in terms of Rule 231(2) of GFR 2017.
11. The implementing institute (being private funded organization) has communicated that the institute is already registered with NGO DARPAN Portal bearing No. **TN/2017/0154653**.
12. Overhead expenses are meant for the host Institute/University towards the cost for providing infrastructural facilities and benefits to the staff employed in the project etc.
13. The expenditure involved is debit to Demand No. 87, Department of Science & Technology for the year 2020-21:

Demand No. 87	Department of Science & Technology
3425	Other Scientific Research (Major Head)
60	Others: (Sub-Major Head)
60.200	Assistance to other Scientific Bodies (Minor Head)
70	Innovation, Technology Development and Deployment
70.00.31	Grants-in-aid General for 2020-2021 (Plan) (Previous: TDP-TMD: 3425.60.200.26.01.31)
This release is being made under TMD (E & W) .	

14. The amount **Rs. 13,03,920/- (Rupees thirteen lakh three thousand nine hundred twenty only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the **"The Registrar, Karunya Institute of Technology and Sciences, Karunya Nagar"**. The bank details for electronic transfer of funds through RTGS are given below: -

Saving Bank Account Number	917010084549949
Name of the bank and branch	Axis Bank, Coimbatore main branch
RTGS/IFSC Code	UTIB0000090
MICR Code	641211002

15. Continuation of the Project beyond **31st March, 2021** will be subject to appraisal and approval of the continuation of the Umbrella Scheme "Innovation, Technology Development & Deployment" under which the Project is funded.
16. As per rule 234 of GFR 2017, this sanction has been entered at S.No. ~~144~~ in the register of grants maintained in the Division for the scheme Technology Mission Division.
17. This issues with the concurrence of IFD Vide their Concurrence Dy. No. C/1806/IFD /2020-21 dated **08.09.2020**.


(G.V RAGHUNATH REDDY)
 Scientist-E

To
 Pay & Accounts Office,
 DST, New Delhi

Copy forwarded for information and necessary action to:

1. The Principal Director of Audit, Scientific Department IIIrd floor, AGCR Building, I.P. Estate, New Delhi
2. Drawing and Disbursing Officer, DST, Cash Section. (Copy with two spare copies)
3. **Dr. P. Jegathambal**
Water Institute – A Centre of Excellence Water
Institute Department
Karunya Institute of Technology and Sciences
Coimbatore, Karunya nagar
Coimbatore-641114
4. **Dr. T. V. Christy**
Department of Mechanical Engineering Karunya
Institute of Technology and Sciences Coimbatore,
Karunya Nagar
Coimbatore-641114
5. **Dr. Sabitha Jannet**
Department of Mechanical Engineering Karunya
Institute of Technology and Sciences Coimbatore,
Karunya Nagar
Coimbatore-641114
6. **The Registrar**
Karunya Institute of Technology and Sciences
Coimbatore, Karunya nagar
Coimbatore-641114
7. **The Principal**
SSN College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam, Chennai – 603 110
8. **Dr. S. Radha**
Department of ECE, SSN College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam, Chennai – 603 110
Tamilnadu – India
9. **Dr. B. S. Sreeja**
Department of ECE, SSN College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam, Chennai – 603 110
Tamilnadu - India
10. **Dr. K.Muthumeenakshi**
Department of ECE, SSN College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam, Chennai – 603 110
Tamilnadu - India
11. **ATS Chem Equipments Pvt. Ltd Unit-**
I, C- 27, Sidco Industrial Estate Hosur-
635126, Tamilnadu
12. **Aruldas Electroplating works**
14/6, Rajiv Gandhi Nagar, Udayampalayam
Coimbatore- 28
13. The Pay & Accounts Officer, DST
14. Sanction folder.
15. File copy.
16. Office Copy.
17. Head, TMD (EW)


(G.V RAGHUNATH REDDY)
Scientist-E



Government of India
Department of Atomic Energy (DAE)
Board of Research in Nuclear Sciences (BRNS)

Dr Ashok Kumar Pandey
Programme Officer

BRNS
Secretariat, 316-C, CFB,
BARC, Trombay,
Mumbai-400085
Email:
prg1.brns@barc.gov.in

No: 59/14/09/2020-BRNS/59007

Date: 28/8/20

OFFICE MEMORANDUM

Sub: R/P entitled "Radiation Resilient RF Receiver Front End Components Through SiGe BICMOS: Design and Validation" under Dr. Srinivasan R, Department of Information Technology, S.S.N College of engineering, Kalavakkam, Tamil Nadu, 603110. bearing sanction 59/14/09/2020-BRNS with DIR, BRNS.

On the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval and sanction of the President of India for the captioned project for 3 years beginning from financial year 2020-2021 with a total grant of Rs. 32,49,850/- (Rupees thirty two lakh forty nine thousand eight hundred fifty only) for the project as under :

Item of expenditure	Year 1 (2020-2021)	Year 2 (2021-2022)	Year 3 (2022-2023)
Equipments	700000	800000	0
Staff Salary - JRF	372000	372000	0
Staff Salary - SRF (1)	0	0	420000
Travel - PI	25000	25000	25000
Contingencies	0	50000	50000
Overheads	82275	89775	33375
Total(INR)	1179275	1336775	528375

Note: * Chip Fabrication - I, Chip Fabrication - II

JRF salary calculated @31,000/- p.m. for first two years and on redesignation by committee on in third year as SRF @ 35,000/- p.m.

Please note that as per the government orders under **Direct Benefit Transfer (DBT) scheme**, the staff salary has to be transferred to his/her bank account. Accordingly, Aadhar Number(UID) of the appointed staff, Bank Account details and the Mobile number linked to the bank account should be obtained and it should be intimated to this office.

Overheads calculated @ 7.5% of the other heads except contingency. The remaining 7.5% towards overheads (Rs. 2,05,425/-) shall be released only on meeting the requirements specified (See Annex-B).

- I am also pleased to convey the sanction of the President of India to incur an expenditure of Rs. 11,79,275/- (Rupees eleven lakh seventy nine thousand two hundred seventy five only) towards grant for the year 2020-2021.
- The expenditure involved is debitable to: 03 3401 00 004 27 0231.
- This is issued with the concurrence of the competent authority in the Department.

Dr. Ashok Kumar Pandey

Pay & Accounts Officer, DAE, Mumbai - 400 001.

Copy forwarded to:

1. Director of Audit, Scientific Department, AEAP, OYC, CSM Marg, Mumbai-400 001.
2. Joint Secretary (R&D), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001.
3. Principal, S.S.N College of engineering, Kalavakkam, Tamil Nadu, 603110..
4. Principal Investigator(PI): Dr. Srinivasan R, Department of Information Technology, S.S.N College of engineering, Kalavakkam, Tamil Nadu, 603110.

A. First year grant is being released in full along with this Sanction Letter through Pay & Accounts Officer, Department of Atomic Energy, Anushakti Bhavan, CSM Marg, Mumbai-400 001 directly. You may await a Money transfer (MT) through ECS and The amount would be credited electronically to A/C No: 158100050070022, A/C Name: The Principal, SSN College of engineering, IFSC: TMBL0000158, Tamilnad Mercantile Bank Ltd No. 3, Thiruvalluvar Salai Thiruvannamipur Chennai - 600 041 Tamilnadu.

i) Acceptance of this sanction and the MT for the amount sanctioned for the first financial year may please be acknowledged (Form-I).

ii) A sticker of the BRNS LOGO (Copy Enclosed) should be pasted on all the items procured under the project.

iii) THIS SANCTION IS FURTHER SUBJECT TO THE CONDITIONS STIPULATED IN ANNEX (ENCLOSED), WHICH MAY BE GONE THROUGH CAREFULLY.

B. Second year Sanction Letter will be issued automatically in the month of April/May of the 2nd financial year, however, the grant will be released (unspent balance of previous year and Interest earned will be adjusted) after the PI submits the following documents to the Programme Officer DIR:

a) Claim in Form-II quoting the reference of the sanction issued for the first year.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year should be updated on the website. Interest earned in previous year should be reflected in the Statement of Accounts. A printout of the same should be sent to BRNS after it is duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee, alongwith HRA CLAIM (if applicable), should be uploaded in a single pdf file under the file head "Staff Appointment Details". In addition, the details of the appointed staff should also be updated in the available menu.

e) The inventory of equipment also should be updated in the menu, besides uploading the purchase order of the items costing more than 1 Lakh.

f) A One Page report on the progress of work during first year.

C. Third and subsequent years (if any) the Sanction Letter and the grant will be released on fulfillment of the following requirements:

i) Renewal/ Extension Application: Principal Investigator (PI) is required to upload by January 15 a pdf copy of duly signed renewal/ extension application in the prescribed form-(PRA) after logging into his/her account at <https://brns.res.in>. All applications received shall be examined by experts from the field and PIs may be invited to a Technical Programme Discussion Meeting (TPDM). Renewal of the project will be based on the recommendations of the TPDM, Advisory Committee and the Board.

ii) Sanction Letter: If the progress is found to be satisfactory the renewal sanction for the year will be issued in the beginning of that financial year in April/May.

iii) Claim: On receipt of the renewal sanction, the PI shall claim the funds sanctioned by submitting the following documents to Programme Officer DIR, 316-C, Common Facility Building, BARC, Trombay, Mumbai-400085:

a) Claim in Form-II quoting reference of the renewal sanction.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant. should be reflected in the Statement of Accounts.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year including the amount of Interest earned in previous year and duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

- d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee.
- e) An inventory of equipment and the copy of Purchase order of equipments costing more than 1 Lakh.
- D. At the end of Terminal Year the Settlement Grant and the Balance 7.5% Overheads will be released on fulfillment of the following requirements:
- a) Claim Form-II if any,
 - b) The final Consolidated Statement of Accounts (SA) and Consolidated Utilization Certificate duly audited by an external Chartered Accountant or the Statutory (Govt.) Auditor. It is mandatory to include the amount of bank interest earned on the grant released into the SA.
 - c) Final Consolidated Progress Report and a brief report as per format given in Form-VII.
5. AAO (Cheque), DAE, Anushakti Bhavan, CSM Marg, Mumbai - 400 001 - With a request that the amount granted for the first year of the project may be released.
 6. Member Secretary (DIR) : Dr. Nagaraj Alangi, ms9.brns@barc.gov.in; Ph:+91-1234
 7. Co-Investigator (CI) : Premanand V Chandramani, Department of ECE, S.S.N College of engineering Kalavakkam - 603 110 Chennai, Tamilnadu, Email : premanandc@ssn.edu.in, Mobile :9003260540K K Nagarajan, Dept of ECE SSN College of engineering OMR Kalavakkam- 603 110
 8. Project Collaborator (PC): Dr. Susanta Kumar Pal, Scientific Officer(H) Head, Applied Electronics Division, VECC Kolkata-700064, Email : sushant@vecc.gov.in, Mobile :9433381156

You or your nominee may please be the DAE representative for selection of Research Fellow/ Research Associate for the project.

Ashok Kumar Pandey
27.8.2020
Dr. Ashok Kumar Pandey

Note:

1. Please quote the Sanction Number 59/14/09/2020-BRNS in all your correspondence with BRNS

o/c
26/8/20.

बिल स Bill No: 34007

तिथि 26/08/2020

Countersigned for Rs. 1179275/- eleven lakh seventy nine thousand two hundred seventy five Rupees Only.

अनुमोदन

Approved

Randey
27.8.2020

कार्यक्रम अधिकारी

Programme Officer DIR

परमाणु ऊर्जा विभाग

DEPARTMENT OF ATOMIC ENERGY

नाभिकीय विज्ञान अनुसंधान मंडल

BOARD OF RESEARCH IN NUCLEAR SCIENCES

Application Number:

{4937}

Please pay the amount to

A/C No: 158100050070022, A/C Name: The Principal, SSN College of engineering, IFSC: TMBL0000158, Tamilnad Mercantile Bank Ltd No. 3, thiruvalluvar Salai Thiruvannamipur Chennai - 600 041 Tamilnadu

Under intimation to

Dr. Srinivasan R, Department of Information Technology

Mobile Number:

द्योतन एवं लेखन अधिकारी, प.ऊ.वि,

Pay & Accounts Officer, DAE

DST/TMD-EWO/WTI/2K19/EFWFH/2019/83(C)
Government of India Ministry of Science & Technology
Department of Science & Technology (Technology Mission Division)

Technology Bhavan, New Delhi
Dated: 28/12/2020

Sanction Order

Subject: Financial support for project entitled **“Electrochemical sensing of sulfamethoxazole antibiotic in water at GO/ZnO Nanocomposites-modified electrodes: Optimization and Real time measurement”** submitted by **Dr. P. Senthil Kumar**, from **Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai**.

Sanction of the President is hereby accorded to the approval of the above-mentioned project at a total cost of **₹ 63,29,222/- (Rupees Sixty Three Lakhs, Twenty Nine Thousand, Two Hundred and Twenty Two Only)**, for a duration of **3 years**. The detailed breakup of the grant for Capital and General Components are given below:

Capital Component: ₹ 19,92,118/-

General Component: ₹ 43,37,104/-

S.No.	Item head	1st Year	2nd Year	3rd Year	Total
A.	Capital-Non Recurring Cost				
	Electrochemical work station	1992118	0	0	1992118
	Sonicator				
	Magnetic stirrer equipped with temperature reading				
	<i>Sub Total (Capital Cost)</i>	<i>1992118</i>	<i>0</i>	<i>0</i>	<i>1992118</i>
B	General-Recurring Cost				
	Manpower (2 JRF for two year and SRF for third Year) (1st two years @ 31000 + 24% and third year @ 35000 + 24 %)	922560	922560	1041600	2886720
	Other cost	150000	100000	50000	300000
	Consumables	100000	100000	75000	275000
	Domestic Travel	50000	50000	50000	150000
	Contingencies	50000	50000	50000	150000
	Sub-Total (B)	1272560	1222560	1266600	3761720
C	Total Cost (A + B)	3264678	1222560	1266600	5753838
D	Overhead	326468	122256	126660	575384
	<i>Sub Total (General Cost)</i>	<i>1599028</i>	<i>1344816</i>	<i>1393260</i>	<i>4337104</i>
E	G. Total Cost (Capital + General)	3591146	1344816	1393260	6329222

- The sanction of the President is also accorded to the release of **₹ 19,92,118/- (Rupee Nineteen Lakhs, Ninety Two Thousands, One Hundred and Eighteen Only)** to **Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai. Chennai.** being the first installment of grant under **“Capital Component”** for implementation of the above mentioned project.
- This sanction is subject to the condition that the grantee organisation will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017



and audited statement of expenditure (SE) along with upto date progress report at the end of each financial year duly reflecting the interest earned/ accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

4. The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
5. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.
6. The grant-in-aid being released is subject to the condition that
 - a. A transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/Organisation under the appropriate rules of the grantee organisation while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organisation immediately on receipt of the grant.
 - b. While submitting Utilization Certificate/Statement of Expenditure, the organisation has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
7. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e., www.Bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/Utilization Certificate for considering subsequent release of grant/closure of project accounts. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
8. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
9. In case the scheme provides for payment of honorarium / remuneration / fellowship / scholarship to the PI, a para may suitably be incorporated in the DSO to the effect that "PI is not drawing any emoluments/ salary/fellowship from any other project either supported by DST or by any other funding agency.
10. The account of the grantee Organisation shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the Organisation is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.
11. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organisation in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR2017.

13. The expenditure involved is debitable to-
- | | |
|--------------|--|
| Demand No 87 | Department of Science and Technology for the year 2020-21 |
| 3425 | Other Scientific Research (Major Head) |
| 60 | Others |
| 60.200 | Assistance to Other Scientific Bodies (Minor head) |
| 70 | Innovation, Technology Development and Deployment |
| 70.00.35 | Grant for creation of capital assets for the year 2020-2021 |
| | (Previous: TDP-3425.60.200.26.01.35- (SERI/WTI) |

14. The amount of ₹ 19,92,118/- (Rupee Nineteen Lakhs, Ninety Two Thousands, One Hundred and Eighteen Only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai. The bank details for electronic transfer of funds through RTGS are given below:-

Name of the Account Holder	The Principal, SSN College of Engineering
Name of the bank	Tamilnad Mercantile Bank Limited
Branch Address	No. 3, Thiruvalluar Salai, Thiruvanniyur, Chennai – 600041
Agency Code (PFMS)	SSNCE
IFSC code	TMBL0000158
Account Number	158100050070022
MICR No.	

15. Continuation of the project beyond 31/03/2021 will be subject to appraisal and approval of the continuation of the Umbrella Scheme "Innovation, technology Development and Deployment" under which the project is funded.
16. As per Rule 234 of GFR 2017, this sanction has been entered at S. No 328 (TMD,WE) in the register of grants maintained in the Division for the scheme(ITDD).
17. As per Rule 237 of GFR 2017, Time Schedule for submission of annual accounts - The dates prescribed for submission of the annual accounts for Audit leading to the issue of Audit Certificate by the Comptroller and Auditor General of India and for submission of annual report and audited accounts to the nodal Ministry for timely submission to the Parliament are listed below:-
- Approved and authenticated annual accounts to be made available by the Autonomous Body to the concerned Audit Office and commencement of audit of annual accounts-30th June.
 - Issue of the final SAR in English version with audit certificate to Autonomous Body/ Government concerned - 31st October.
 - Submission of the Annual Report and Audited Accounts to the Nodal for it to be laid on the Table of the Parliament -31st December.
18. The organization/Institute/University should ensure that the technical support/financial assistance provided to them by the Department of Science and Technology should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraph of their Annual Report.
19. It is important that the information and knowledge generated through the use of these funds are made publicly available as soon as possible. In order to achieve the aforementioned objectives, each institution is encouraged to set up its own inter-operable institutional open access repository ("IR") for its research papers and review

articles published in peer reviewed journals. The Ministry of Science and Technology has set up a central harvester (www.sciencecentral.in) that will harvest the full text and metadata of these publications. Kindly update the findings accordingly.

20. The organization named **Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai.** and partnering institutes agrees to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under its control on the lines indicated by the Government of India.
21. The goods (consumables/equipment) available in GeM portal are to be procured mandatorily online through GeM only.
22. The Organization/Institute/University should ensure that DoE Guidelines followed for International Travel.
23. The Organization /Institute /University is registered at DARPAN portal with unique DARPAN ID: **TN/2017/0118071.**
24. This issues with the concurrence of IFD Vide their Concurrence Dy. No. **4057** dated **24/12/2020**

(Dr. Sanjai Kumar)
Scientist-D

Email: Sanjai.k@gov.in

1. Cash Section (3 copies) for preparing the bill and remitting the amount to the above grantee.
2. Accounts Section, DST, New Delhi.
3. IFD, Department of Science & Technology, New Delhi.
4. Director of Audit (CW & M-II), AGCR Building, IP Estate, New Delhi.
5. **Principal Investigator (PI)**
Name: Dr. P. Senthil Kumar
Designation: Associate Professor
Department: Department of Chemical engineering,
Institute/University: Sri Sivasubramaniya Nadar College of Engineering
Address: Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai – 603 110
Email: senthilkumar@ssn.edu.in
Mobile: +91 9884823425

Co-Principal Investigator (Co-PI)

Name: Dr. B.S. Sreeja
Designation: Associate Professor
Department: Department of Electronics and Communication Engineering,
Institute/University: Sri Sivasubramaniya Nadar College of Engineering,
Address: Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai – 603 110
Email: sreejabs@ssn.edu.in
Mobile: +91 9790915273

6. Sanction folder
7. Office Copy
8. Head- TMD(EWO)

(Dr. Sanjai Kumar)
Scientist-D

BP-2020-21-2584

FILE NO. CRG/2020/003536

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 Kuni
New Delhi-110070

Dated: 25-Dec-2020

ORDER

Subject: Financial Sanction of the research project titled "**FABRICATION OF HOMOGENEOUS PLASTIC SCINTILLATORS BY THERMAL POLYMERIZATION REACTION FOR FAST NEUTRON DETECTION APPLICATIONS**" under the guidance of Dr. Rajesh P, Physics, SSN College of Engineering, Sri Sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam, Kanchipuram, Tamil nadu-603110 and by Dr. A Rajalakshmi, Professor, Physics, SSN College Of Engineering - 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. 4308832/- (Rs. Forty Three Lakh Eight Thousand Eight Hundred and Thirty Two Only) with break-up of Rs. 1700000/- under Capital (Non-recurring) head and Rs. 2608832/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 4308832/- has been approved are given below:

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Fluorescence Spectrophotometry	1700000
A'	Total (Non-Recurring)	1700000
B	Recurring Items	
1	Recurring - I : (Manpower)	1257120
	Recurring - II : (Consumables, Travel, Contingencies)	900000
	Recurring - III : Scientific Social Responsibility	60000
2	Recurring - IV : (Overhead Charges)	391712
B'	Total (Recurring)	2608832
C	Total cost of the project (A' + B')	4308832

2. Sanction of the SERB is also accorded to the payment of Rs. 1009600/- (Rupees Ten Lakh Nine Thousand Six Hundred only) under 'Grants-in-aid General' to **PRINCIPAL, SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam** being the first installment of the grant for the year 2020-2021 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. (PAC Physics-1 (Condensed Matter Physics and Material Sciences))~~

4. The Sanction has been issued to SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam with the approval of the competent authority under delegated powers on **24 December, 2020** and vide Diary No. SERB/F/6311/2020-2021 dated **25 December, 2020**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (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. 1009600/-** (Rupees Ten Lakh Nine Thousand Six Hundred ~~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	SSNCE
Account Name	THE PRINCIPAL, SSN COLLEGE OF ENGINEERING
Account Number	158100050070022
Bank Name & Branch	TAMILNAD MERCANTILE BANK LTD Tamilnad Mercantile Bank Ltd Chennai Tiruvanmiyur, 3, Thiruvalluvar Salai, Thiruvanmiyur, Chennai - 600041
IFSC/RTGS Code	TMBL0000158
Email id of A/C Holder	principal@ssn.edu.in
Email id of PI	rajeshp@ssn.edu.in

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/2020/003536 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. Nilotpal Ghosh)

MS

nilotpal@serb.gov.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.	Dr. Rajesh P Physics SSN College of Engineering, Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam, Kanchipuram, Tamil nadu-603110 Email: rajeshp@ssn.edu.in Mobile: 919445434893 Dr. A Rajalakshmi Physics SSN College Of Engineering (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	PRINCIPAL, SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam (Receipt of Grant may be intimated by name to the undersigned)


(Dr. Nilotpal Ghosh)
MS
nilotpal@serb.gov.in

The updated RTGS details of the SSN College of Engineering , Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam , Kanchipuram, Tamil nadu-603110 is as below:

PFMS Unique Code	SSNCE
Account Name	THE PRINCIPAL, SSN COLLEGE OF ENGINEERING
Account Number	158100710400509
Bank Name & Branch	TAMILNAD MERCANTILE BANK LTD Tamilnad Mercantile Bank Ltd Chennai Tiruvanmiyur, 3, Thiruvalluvar Salai, Thiruvanmiyur, Chennai - 600041
IFSC/RTGS Code	TMBL0000158 ✓
Email id of A/C Holder	principal@ssn.edu.in

Shoh
28/12

डॉ. नीलोत्पल घोष
वैज्ञानिक ई



Government of India
Department of Atomic Energy (DAE)
Board of Research in Nuclear Sciences (BRNS)

Dr. Ashok Pandey
Programme Officer (BRE)

BRNS
Secretariat, 316-C, CFB,
BARC, Trombay,
Mumbai-400085
Phone: +91-02225594566
Email: ashokk@barc.gov.in

No: 58/14/05/2020-BRNS/37059

Date: 23/07/2020

OFFICE MEMORANDUM

Sub: R/P entitled "Growth of CdMnTe single crystals by Bridgman Technique for application in Gamma ray Detectors" under Dr. P. Rajesh, Assistant Professor, Dept. of Physics, Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Kanchipuram, Tamil Nadu-603110. bearing sanction 58/14/05/2020-BRNS with BRE, BRNS.

On the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval and sanction of the President of India for the captioned project for 3 years beginning from financial year 2020-2021 with a total grant of Rs. 33,80,850/- (Rupees thirty three lakh eighty thousand eight hundred fifty only) for the project as under :

Item of expenditure	Year 1 (2020-2021)	Year 2 (2021-2022)	Year 3 (2022-2023)
Equipments	900000	0	0
Staff Salary - JRF	372000	372000	0
Staff Salary - SRF	0	0	420000
Consumables	450000	200000	100000
Travel - PI	20000	20000	25000
Contingencies	20000	25000	25000
Overheads	130650	44400	40875
Total(INR)	1892650	661400	610875

Note: * ACRT assembly, Eurotherm Controllers Eurotherm Thyristors, Eurotherm Thyristors, Synthesis Furnace, Crystal Growth Furnace

JRF salary calculated @ Rs.31,000/- p.m. for first two years and on redesignation by committee on in third year as SRF @ Rs.35,000/- p.m.

Please note that as per the government orders under Direct Benefit Transfer (DBT) scheme, the staff salary has to be transferred to his/her bank account. Accordingly, Aadhar Number (UID) of the appointed staff, Bank Account details and the Mobile number linked to the bank account should be obtained and it should be intimated to this office.

Overheads calculated @ 7.5% of the other heads except contingency. The remaining 7.5% towards overheads (Rs. 2,15,925/-) shall be released only on meeting the requirements specified (See Annex-B).

- I am also pleased to convey the sanction of the President of India to incur an expenditure of Rs. 18,92,650/- (Rupees eighteen lakh ninety two thousand six hundred fifty only) towards grant for the year 2020-2021.
- The expenditure involved is debitable to: 03 3401 00 004 27 0231.
- This is issued with the concurrence of the competent authority in the Department.

Ashok Pandey
24.7.2020

Dr. Ashok Pandey

Pay & Accounts Officer, DAE, Mumbai - 400 001.

Copy forwarded to:

1. Director of Audit, Scientific Department, AEAP, OYC, CSM Marg, Mumbai-400 001.
2. Joint Secretary (R&D), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001.
3. Principal, Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Kanchipuram, Tamil Nadu-603110..
4. Principal Investigator(PI): Dr. P. Rajesh, Assistant Professor, Dept. of Physics, Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Kanchipuram, Tamil Nadu-603110..

A. First year grant is being released in full along with this Sanction Letter through Pay & Accounts Officer, Department of Atomic Energy, Anushakti Bhavan, CSM Marg, Mumbai-400 001 directly. You may await a Money transfer (MT) through ECS and The amount would be credited electronically to A/C No: 158100050070022, A/C Name: The Principal, SSN College of Engineering, IFSC: TMBL0000158, Tamilnad Mercantile Bank Ltd. Thiruvannamiyur, Chennai - 600 041.

i) Acceptance of this sanction and the MT for the amount sanctioned for the first financial year may please be acknowledged (Form-I).

ii) A sticker of the BRNS LOGO (Copy Enclosed) should be pasted on all the items procured under the project.

iii) THIS SANCTION IS FURTHER SUBJECT TO THE CONDITIONS STIPULATED IN ANNEX (ENCLOSED), WHICH MAY BE GONE THROUGH CAREFULLY.

B. Second year Sanction Letter will be issued automatically in the month of April/May of the 2nd financial year, however, the grant will be released (unspent balance of previous year and Interest earned will be adjusted) after the PI submits the following documents to the Programme Officer BRE:

a) Claim in Form-II quoting the reference of the sanction issued for the first year.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year should be updated on the website. Interest earned in previous year should be reflected in the Statement of Accounts. A printout of the same should be sent to BRNS after it is duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee, alongwith HRA CLAIM (if applicable), should be uploaded in a single pdf file under the file head "Staff Appointment Details". In addition, the details of the appointed staff should also be updated in the available menu.

e) The inventory of equipment also should be updated in the menu, besides uploading the purchase order of the items costing more than 1 Lakh.

f) A One Page report on the progress of work during first year.

C. Third and subsequent years (if any) the Sanction Letter and the grant will be released on fulfillment of the following requirements:

i) Renewal/ Extension Application: Principal Investigator (PI) is required to upload by January 15 a pdf copy of duly signed renewal/ extension application in the prescribed form-(PRA) after logging into his/her account at <https://brns.res.in>. All applications received shall be examined by experts from the field and PIs may be invited to a Technical Programme Discussion Meeting (TPDM). Renewal of the project will be based on the recommendations of the TPDM, Advisory Committee and the Board.

ii) Sanction Letter: If the progress is found to be satisfactory the renewal sanction for the year will be issued in the beginning of that financial year in April/May.

iii) Claim: On receipt of the renewal sanction, the PI shall claim the funds sanctioned by submitting the following documents to Programme Officer BRE, 316-C, Common Facility Building, BARC, Trombay, Mumbai-400085:

a) Claim in Form-II quoting reference of the renewal sanction.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant. should be reflected in the Statement of Accounts.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year including the amount of

Interest earned in previous year and duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee.

e) An inventory of equipment and the copy of Purchase order of equipments costing more than 1 Lakh.

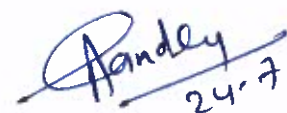
D. At the end of Terminal Year the Settlement Grant and the Balance 7.5% Overheads will be released on fulfillment of the following requirements:

a) Claim Form-II if any,

b) The final Consolidated Statement of Accounts (SA) and Consolidated Utilization Certificate duly audited by an external Chartered Accountant or the Statutory (Govt.) Auditor. It is mandatory to include the amount of bank interest earned on the grant released into the SA.

c) Final Consolidated Progress Report and a brief report as per format given in Form-VII .

5. AAO (Cheque), DAE, Anushakti Bhavan, CSM Marg, Mumbai - 400 001 – With a request that the amount granted for the first year of the project may be released.
6. Member Secretary (BRE) : Dr. Surendra Singh, SSPD, BARC surendra@barc.gov.in
7. Co-Investigator (CI) : Dr. P. Ramasamy, Dean (Research) SSN College of Engineering Kalavakkam 603110 Kanchipuram Tamilnadu, Email : ramasamp@ssn.edu.in, Mobile :9283105760
8. Project Collaborator (PC): Dr. S.Ganesamoorthy, Scientific Officer - F, X-ray Scattering and Crystal Growth Section, CMPD, Materials Science Group, IGCAR, Kalpakkam 603102, Email : sgm@igcar.gov.in, Mobile :7598368880 - **You or your nominee may please be the DAE representative for selection of Research Fellow/ Research Associate for the project.**


24-7-202

Dr. Ashok Pandey

Note:

1. Please quote the Sanction Number 58/14/05/2020-BRNS in all your correspondence with BRNS

ok
23/7/2020

बिल नं. Bill No: 37009

तिथि 23/07/2020

Countersigned for Rs. 1892650/- eighteen lakh ninety two thousand six hundred fifty Rupees Only.

अनुमोदन

Approved

Handley
24.7.2020

कार्यक्रम अधिकारी

Programme Officer BRE

परमाणु ऊर्जा विभाग

DEPARTMENT OF ATOMIC ENERGY

नाभिकीय विज्ञान अनुसंधान मंडल

BOARD OF RESEARCH IN NUCLEAR SCIENCES

Application Number:201905BRE03RP05765-BRNS

कृपया निम्नलिखित को सुचित करते हुए
राशि का भुगतान इन्हे करें।

Please pay the amount to

A/C No: 158100050070022, A/C Name: The Principal, SSN College of
Engineering, IFSC: TMBL0000158, Tamilnad Mercantile Bank Ltd.
Thiruvananthapuram, Chennai - 600 041

Under intimation to

Dr. P. Rajesh, Assistant Professor, Dept. of Physics

Mobile Number:9445434893

होतन एवं लेखन अधिकारी, प.ऊ.वि,

Pay & Accounts Officer, DAE

BP-2020-21-2596

FILE NO. CRG/2020/003472

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: 25-Dec-2020

ORDER

Subject: Financial Sanction of the research project titled "**Silver nanowires and MoS₂ microsphere based filtration system for efficient bacterial removal from potable water**" under the guidance of Dr. Balaji Bhargav, SSN RESEARCH CENTER, SSN College of Engineering, Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam, Kanchipuram, Tamil nadu-603110 and by Mr. Balaji Chandra, Research Scientist, Research Center, SSN College Of Engineering and by Mr. Nafis Ahmed, Assistant Professor, Physics, SSN College Of Engineering - 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. 2367332/-** (Rs. Twenty Three Lakh Sixty Seven Thousand Three Hundred and Thirty Two Only) with break-up of **Rs. 320000/- under Capital (Non-recurring) head** and **Rs. 2047332/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 2367332/-** has been approved are given below:

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Programmable Triple Channel DC Power supply -> Vacuum Oven	320000
A'	Total (Non-Recurring)	320000
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1257120 515000 60000
2	Recurring - IV : (Overhead Charges)	215212
B'	Total (Recurring)	2047332
C	Total cost of the project (A' + B')	2367332

2. Sanction of the **SERB** is also accorded to the payment of **Rs. 790800/-** (Rupees Seven Lakh Ninety Thousand Eight Hundred only) under 'Grants-in-aid General' to **PRINCIPAL, SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam** being the first installment of the grant for the year 2020-2021 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. (PAC Physics-1 (Condensed Matter Physics and Material Sciences))

4. The Sanction has been issued to SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam with the approval of the competent authority under delegated powers on **24 December, 2020** and vide Diary No. **SERB/F/6280/2020-2021** dated **25 December, 2020**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (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. 790800/-** (Rupees Seven Lakh Ninety Thousand Eight Hundred 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	SSNCE
Account Name	THE PRINCIPAL, SSN COLLEGE OF ENGINEERING
Account Number	158100050070022
Bank Name & Branch	TAMILNAD MERCANTILE BANK Ltd Thiruvannamipur Branch, No.3, Thiruvalluvar Salai, Thiruvannamipur, Chennai - 600041
IFSC/RTGS Code	TMBL0000158
Email id of A/C Holder	principal@ssn.edu.in
Email id of PI	balajibhargavp@ssn.edu.in

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/2020/003472 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

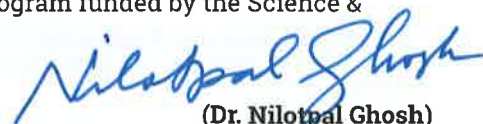
15. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any. beyond the duration of the project

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. Nilotpal Ghosh)

MS

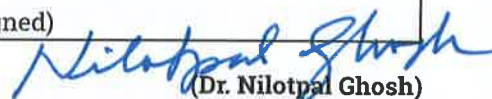
nilotpal@serb.gov.in

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.	Dr. Balaji Bhargav SSN RESEARCH CENTER SSN College of Engineering , Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam , Kanchipuram, Tamil nadu-603110 Email: balajibhargavp@ssn.edu.in Mobile: 919789095983 Mr. Balaji Chandra Research Center SSN College Of Engineering Mr. Nafis Ahmed Physics SSN College Of Engineering (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	PRINCIPAL, SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam (Receipt of Grant may be intimated by name to the undersigned)


 (Dr. Nilotpal Ghosh)
 MS
 nilotpal@serb.gov.in

The updated RTGS details of the SSN College of Engineering , Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam , Kanchipuram, Tamil nadu-603110 is as below:

PFMS Unique Code	SSNCE
Account Name	THE PRINCIPAL, SSN COLLEGE OF ENGINEERING
Account Number	158100710400509
Bank Name & Branch	TAMILNAD MERCANTILE BANK Ltd Thiruvanmiyur Branch, No.3, Thiruvalluvar Salai, Thiruvanmiyur, Chennai - 600041
IFSC/RTGS Code	TMBL0000158
Email id of A/C Holder	principal@ssn.edu.in

g h o h
28/12





Government of India
Department of Atomic Energy (DAE)
Board of Research in Nuclear Sciences (BRNS)

Dr. Ashok Pandey
Programme Officer (BRE)

BRNS Secretariat,
316-C, CFB, BARC,
Trombay,
Mumbai-400085
Phone: +91-02225594566
Email: ashokk@barc.gov.in

No: 58/14/15/2020-BRNS/37213

04/01/2021
Date: 21/12/2020

OFFICE MEMORANDUM

Sub: R/P entitled "Synthesis of Lead-free Silver Bismuth Iodide light absorbers for mesoscopic solar cells" under Dr. R. Govindaraj, Research Scientist, SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Chennai, Tamil Nadu, 603110. bearing sanction 58/14/15/2020-BRNS with BRE, BRNS.

On the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval and sanction of the President of India for the captioned project for 3 years beginning from financial year 2020-2021 with a total grant of Rs. 44,60,100/- (Rupees forty four lakh sixty thousand one hundred only) for the project as under :

Item of expenditure	Year 1 (2020-2021)	Year 2 (2021-2022)	Year 3 (2022-2023)
Equipments	2100000	0	0
Staff Salary - JRF	372000	372000	0
Staff Salary - SRF	0	0	0
Consumables	200000	150000	420000
Travel - PI	20000	20000	100000
Contingencies	40000	20000	20000
Overheads	201900	40650	40000
Total(INR)	2933900	622650	620500

Note: * Temperature Humidity Test Chamber, Ultrasonic soldering station, UV-Vis NIR Spectrophotometer
JRF salary calculated @ Rs.31,000/- p.m. for first two years and on redesignation by committee on in third year as SRF @ Rs.35,000/- p.m.

Please note that as per the government orders under **Direct Benefit Transfer (DBT) scheme**, the staff salary has to be transferred to his/her bank account. Accordingly, Aadhar Number(UID) of the appointed staff, Bank Account details and the Mobile number linked to the bank account should be obtained and it should be intimated to this office.

Overheads calculated @ 7.5% of the other heads except contingency. The remaining 7.5% towards overheads (Rs. 2,83,050/-) shall be released only on meeting the requirements specified (See Annex-B).

- I am also pleased to convey the sanction of the President of India to incur an expenditure of Rs. 29,33,900/- (Rupees twenty nine lakh thirty three thousand nine hundred only) towards grant for the year 2020-2021.
- The expenditure involved is debit to: 03 3401 00 004 27 0231.
- This is issued with the concurrence of the competent authority in the Department.

Ashok Pandey
4.1.2021
Dr. Ashok Pandey

Pay & Accounts Officer, DAE, Mumbai - 400 001.

Copy forwarded to:

1. Director of Audit, Scientific Department, AEAP, OYC, CSM Marg, Mumbai-400 001.
2. Joint Secretary (R&D), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001.
3. Principal, SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Chennai, Tamil Nadu, 603110..
4. Principal Investigator(PI): Dr. R. Govindaraj, Research Scientist, SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Chennai, Tamil Nadu, 603110..

A. First year grant is being released in full along with this Sanction Letter through Pay & Accounts Officer, Department of Atomic Energy, Anushakti Bhavan, CSM Marg, Mumbai-400 001 directly. You may await a Money transfer (MT) through ECS and The amount would be credited electronically to A/C No: 158100050070022, A/C Name: THE PRINCIPAL, SSN COLLEGE OF ENGINEERING, IFSC: TMBL0000158, Tamilnad Mercantile Bank Ltd. Thiruvanniyur No.3. Thiruvalluvar Salai Chennai-600041.

i) Acceptance of this sanction and the MT for the amount sanctioned for the first financial year may please be acknowledged (Form-I).

ii) A sticker of the BRNS LOGO (Copy Enclosed) should be pasted on all the items procured under the project.

iii) THIS SANCTION IS FURTHER SUBJECT TO THE CONDITIONS STIPULATED IN ANNEX (ENCLOSED), WHICH MAY BE GONE THROUGH CAREFULLY.

B. Second year Sanction Letter will be issued automatically in the month of April/May of the 2nd financial year, however, the grant will be released (unspent balance of previous year and Interest earned will be adjusted) after the PI submits the following documents to the Programme Officer BRE:

a) Claim in Form-II quoting the reference of the sanction issued for the first year.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year should be updated on the website. Interest earned in previous year should be reflected in the Statement of Accounts. A printout of the same should be sent to BRNS after it is duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee, alongwith HRA CLAIM (if applicable), should be uploaded in a single pdf file under the file head "Staff Appointment Details". In addition, the details of the appointed staff should also be updated in the available menu.

e) The inventory of equipment also should be updated in the menu, besides uploading the purchase order of the items costing more than 1 Lakh.

f) A One Page report on the progress of work during first year.

C. Third and subsequent years (if any) the Sanction Letter and the grant will be released on fulfillment of the following requirements:

i) Renewal/ Extension Application: Principal Investigator (PI) is required to upload by January 15 a pdf copy of duly signed renewal/ extension application in the prescribed form-(PRA) after logging into his/her account at <https://brns.res.in>. All applications received shall be examined by experts from the field and PIs may be invited to a Technical Programme Discussion Meeting (TPDM). Renewal of the project will be based on the recommendations of the TPDM, Advisory Committee and the Board.

ii) Sanction Letter: If the progress is found to be satisfactory the renewal sanction for the year will be issued in the beginning of that financial year in April/May.

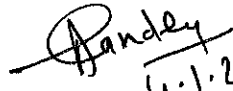
iii) Claim: On receipt of the renewal sanction, the PI shall claim the funds sanctioned by submitting the following documents to Programme Officer BRE, 316-C, Common Facility Building, BARC, Trombay, Mumbai-400085:

a) Claim in Form-II quoting reference of the renewal sanction.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant. should be reflected in the Statement of Accounts.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year including the amount of Interest earned in previous year and duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

- d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee.
- e) An inventory of equipment and the copy of Purchase order of equipments costing more than 1 Lakh.
- D. At the end of Terminal Year the Settlement Grant and the Balance 7.5% Overheads will be released on fulfillment of the following requirements:
- a) Claim Form-II if any,
- b) The final Consolidated Statement of Accounts (SA) and Consolidated Utilization Certificate duly audited by an external Chartered Accountant or the Statutory (Govt.) Auditor. It is mandatory to include the amount of bank interest earned on the grant released into the SA.
- c) Final Consolidated Progress Report and a brief report as per format given in Form-VII.
5. AAO (Cheque), DAE, Anushakti Bhavan, CSM Marg, Mumbai - 400 001 – With a request that the amount granted for the first year of the project may be released.
6. Member Secretary (BRE) : Dr. Surendra Singh, SSPD, BARC surendra@barc.gov.in
7. Co-Investigator (CI) : P. Ramasamy, SSN College of Engineering, Kalavakkam-603 110, Tamil Nadu, India, Email : ramasamp@ssn.edu.in, Mobile :9283105760P. Balaji Bhargav, SSN Research Centre, SSN College of Engineering, Kalavakkam-603 110, Tamil Nadu, India, Email : balajibhar
8. Project Collaborator (PC): A.K. Chauhan, Thin Film Devices Section Technical Physics Division Bhabha Atomic Research Centre Trombay, Mumbai 400 085 INDIA, Email : akchau@barc.gov.in, Mobile :9094095000 - **You or your nominee may please be the DAE representative for selection of Research Fellow/ Research Associate for the project.**


4.1.2021
Dr. Ashok Pandey

Note:

1. Please quote the Sanction Number 58/14/15/2020-BRNS in all your correspondence with BRNS

o/c
D
22/12/2020

बिल स Bill No:

37099

तिथि

21/12/2020

Countersigned for Rs. 2933900/- twenty nine lakh thirty three thousand nine hundred Rupees Only.

अनुमोदन

Approved

Randey
4.1.2021

कार्यक्रम अधिकारी

Programme Officer BRE

परमाणु ऊर्जा विभाग

DEPARTMENT OF ATOMIC ENERGY

राष्ट्रिय विज्ञान अनुसंधान मंडल

BOARD OF RESEARCH IN NUCLEAR SCIENCES

Application Number:201912BRE03RP05811-BRNS

कृपया निम्नलिखित को सुचित करते हुए
राशी का भुगतान इन्हें करें।

Please pay the amount to

A/C No: 158100050070022, A/C Name: THE PRINCIPAL, SSN COLLEGE
OF ENGINEERING, IFSC: TMBL0000158, Tamilnad Mercantile Bank Ltd.
Thiruvannamiyur No.3. Thiruvalluvar Salai Chennai-600041

Under intimation to

Dr. R. Govindaraj, Research Scientist

Mobile Number:9790346912

स्रोत एवं लेखन अधिकारी, प.ऊ.वि,

Pay & Accounts Officer, DAE

Web Site : <http://ifgtb.icfre.gov.in>

Fax : 91 - 422-2430549

Phone : 0422 -2484100

Email : dir_ifgtb@icfre.org

वन आनुवंशिकी एवं वृक्ष प्रजनन संस्थान

(भारतीय वानिकी अनुसंधान एवं शिक्षा परिषद)

(पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, भारत सरकार का एक स्वायत्त निकाय)

पी.बी.नं.१०६१, कोयम्बतूर - ६४१००२, तमिलनाडु, भारत



INSTITUTE OF FOREST GENETICS & TREE BREEDING

(INDIAN COUNCIL OF FORESTRY RESEARCH & EDUCATION)

(An autonomous body of Ministry of Environment Forest & Climate Change, Govt. of India)

P.O.No.1061, Coimbatore - 641002, Tamil Nadu, India

IFGTB/FECC/AICRP-IAPS/

10th February 2020

To

Dr. R.Jayaparvathy, M.E., Ph.D,
Professor,
Department of Electronics and Communication Engineering,
SSN College of Engineering,
Old Mahabalipuram Road,
SSN Nagar, Kalavakkam- 603 110 (off. Chennai).

Subject: Approval of Project Proposal AICRP-7 Reg.

Ref: ICFRE No.75/2019/ICFRE(R)/RP/SFRESPE(CAMPA)/AICRP-7/30 dated 10/01/2020

ICFRE No.75/2019/ICFRE(R)/RP/SFRESPE(CAMPA)/AICRP-7/107 dated 04/02/2020

Dear Dr. R.Jayaparvathy,

As you are aware that the project component submitted by you (In pursuance to the telephonic discussion) was included as a part of All India Coordinated Research Project (AICRP - 7) titled "Assessment and monitoring of Invasive Alien Plant Species in India and formulation of strategies for management of key Invasive Alien Plant Species in different regions of the country". The AICRP - 7 was submitted by Indian Council of Forestry Research & Education (ICFRE), Dehradun for funding as part of a scheme titled "Strengthening Forestry Research for Ecological Sustainability and Productivity Enhancement" to Compensatory Afforestation Fund Management and Planning Authority (CAMPA) of Ministry of Environment, Forests and Climate Change (MoEFCC), Government of India.

The CAMPA has approved the proposals for funding and the details of budget approved for various partner institutes/organizations of AICRP - 7 are attached herewith for your reference. In this connection, it is requested that a separate bank account need to be opened and a Memorandum of Agreement (MoA) needs to be executed at the earliest so that funds can be transferred to your account. A draft MoA is attached herewith for further necessary action please.

With regards,

Yours faithfully

Dr A. Rajasekaran
National Project Coordinator

Directorate of Research
Indian Council of Forestry Research and Education (ICFRE)
Dehradun

REVISED OFFICE ORDER (I)

Sub: Partial modification of Office order No.75/2019/ICFRE (R)/RP/SFRESPE (CAMP)/AICRP-7/Main File/30, dated 10/01/2020

1. In partial modification of this office order No. 75/2019/ICFRE (R)/RP/SFRESPE (CAMP)/AICRP-7/Main File/30, dated 10/01/2020 on "Assessment and monitoring of Invasive Alien Plant Species in India and formulation of strategies for management of key Invasive Alien Plant Species in different regions of the country" vide which sanction was issued, for implementation of the project encompassing the budget of individual institutes and the total outlay of the project. The competent authority has now approved 10% institutional charges to Non-ICFRE Institutes (SSN College of Engineering, Chennai, Bharathidasan University, Tamil Nadu, ICAR - Directorate of Weed Research (DWR), Jabalpur) for their component. The modified outlay including institutional charges (10%) for Non-ICFRE Institutes is detailed below. The ICFRE budget component is accordingly modified. Necessary changes in the total project outlay are incorporated. Total budget outlay however remains same.

1.1 SSN College of Engineering, Chennai

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
Total of SSNC component	9.31	3.92	3.66	4.16	4.66	2.61	28.32
10% institutional charges	0.931	0.392	0.366	0.416	0.466	0.261	2.832
Grand Total	10.241	4.312	4.026	4.576	5.126	2.871	31.152

The total outlay of SSN college will now be Rs. 31.152 lakhs instead of Rs. 28.32 lakhs

1.2 Bharathidasan University (BU), Tamil Nadu

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. in lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
Total of BU component	1.39	4.17	3.91	3.41	3.16	2.28	18.32
10% institutional charges	0.139	0.417	0.391	0.341	0.316	0.228	1.832
Grand Total	1.529	4.587	4.301	3.751	3.476	2.508	20.152

The total outlay of Bharathidasan University will now be Rs. 20.152 lakhs instead of Rs. 18.32 lakhs

1.3 ICAR - Directorate of Weed Research (DWR), Jabalpur

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
Total of ICAR- DWR component	2.20	3.36	3.11	3.86	3.61	2.41	18.55
10% institutional charges	0.220	0.336	0.311	0.386	0.361	0.241	1.855
Grand Total	2.42	3.696	3.421	4.246	3.971	2.651	20.405

The total outlay of ICAR-DWR will now be Rs. 20.405 lakhs instead of Rs. 18.55 lakhs

1.4 ICFRE, Dehradun Component of Budget

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
Institutional charges (10%) (ICFRE Institutes)	4.070	6.095	6.282	5.917	5.357	3.760	31.48
Monitoring cost (5%)	2.68	3.62	3.67	3.53	3.25	2.25	19.00
Overall project escalation cost (5%)	2.68	3.62	3.67	3.53	3.25	2.25	19.00
Total	9.43	13.335	13.622	12.977	11.857	8.26	69.48

The total ICFRE component of budget will now be Rs. 69.48 Lakhs instead of Rs. 76.00 lakhs. ICFRE institutional charges will be now Rs.31.48 lakhs instead of Rs.38.00 lakhs

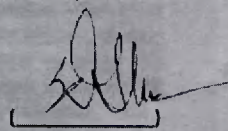
1.5 Total project outlay

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	12.26	36.78	40.14	40.14	40.44	24.52	194.28
M&S (Consumables)	2.33	6.00	6.25	5.50	6.60	4.67	31.35
Travel	4.35	14.55	14.35	11.75	8.75	8.7	62.45
Field Research Expenses (FRE)	3.48	11.95	10.5	10.5	7.75	6.97	51.15
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							
Equipment & Accessories	31.15	3.15	2.25	2.70	1.50	0.00	40.75
Total	53.58	72.43	73.49	70.59	65.04	44.85	379.98
Institutional charges (10%) (ICFRE institutes)	4.070	6.095	6.282	5.917	5.357	3.760	31.48

Institutional charges (10%)** (Non-ICFRE Institutes)	1.29	1.145	1.068	1.143	1.143	0.73	6.52
Monitoring cost (5%)	2.68	3.62	3.67	3.53	3.25	2.25	19.00
Overall project escalation cost (5%)	2.68	3.62	3.67	3.53	3.25	2.25	19.00
Grand total	64.30	86.91	88.18	84.71	78.04	53.84	455.98

** (SSN, Bharathidasan University, ICAR-DWR)

This order is to be conjointly read with order No. 75/2019/ICFRE (R)/RP/SFRESPE (CAMP)/AICRP-7/Main File/30, dated 10/01/2020. The other terms and conditions of expenditure remain unchanged.



DDG (Research)

Directorate of Research, ICFRE, Dehradun

Copy for information and necessary action:

1. Deputy Director General (Administration), ICFRE
2. Directors of the concerned ICFRE Institutes (IFGTB, Coimbatore; FRI, Dehradun; RFRI, Jorhat; HFRI, Shimla; IFP, Ranchi; IWST, Bengaluru; AFRI, Jodhpur; TFRI, Jabalpur)
3. National Project Coordinator, IFGTB, Coimbatore
4. Pls of Non-ICFRE Institutes (SSN College of Engineering, Chennai; Bharathidasan University, Tamil Nadu; ICAR - Directorate of Weed Research (DWR), Jabalpur) that the funds shall be released soon after signing of MoA
5. DDG (Research), ICFRE
6. ADG (M&E), ICFRE
7. DDO/Accounts Officer, ICFRE
8. Master file, project file/Review Committee file/PEG file of the project AICRP-7
9. Sr. P.S. to DG, ICFRE for kind information of DG, ICFRE

Directorate of Research
Indian Council of Forestry Research and Education (ICFRE)
Dehradun

OFFICE ORDER

Sub: All India Coordinated Research Project (AICRP)-7 on "Assessment and monitoring of Invasive Alien Plant Species in India and formulation of strategies for management of key Invasive Alien Plant Species in different regions of the country" – approval and grant for participating Institutes/organizations

1. Governing Body of National Authority (CAMPA) in its 1st meeting held on 15th November 2019 has approved the scheme titled **"Strengthening Forestry Research for Ecological sustainability and Productivity Enhancement"** for funding (OM No. 13-30/2019 – NA dated 6th December 2019). Subsequently, Government of India, Ministry of Environment, Forest and Climate Change has approved the scheme vide No. 13-28/2018-CAMPA dt. 02-01-2020. As a component of the Scheme, thirty-one All India Coordinated Research Projects (AICRPs) have been approved for funding.
2. XVIII Research Policy Committee (RPC) 2018 and XIX RPC 2019 has recommended above mentioned 31 AICRPs for approval.
3. Now, ICFRE hereby approves the AICRP titled **"Assessment and monitoring of Invasive Alien Plant Species in India and formulation of strategies for management of key Invasive Alien Plant Species in different regions of the country"** for implementation under the AICRP component of the scheme at a total cost of Rs. 455.98 lakhs for a duration of 5 years (60 months) as per the budget details provided in this order.
4. The institutional partners in this research project and their designated National Project Coordinator (NPC), Principal Investigators (PI) and Co-PIs are as follows:

Sl. No.	Name of the institute/ Non-ICFRE Organization	ICFRE/ Non-ICFRE organization	Members of the project team	NPC/ PI/ Co-PI
1	Institute of Forest Genetics and Tree Breeding, Coimbatore (lead Institute)	ICFRE	Dr. A. Rajasekaran	NPC & PI
			Dr. N. Senthilkumar	Co-PI
			Dr. A. Vijayaraghavan	Co-PI
			Dr A.C.Suryaprabha	Co-PI
2	Forest Research Institute, Dehradun	ICFRE	Mr. Manoj Kumar	PI
			Dr V.P. Panwar	Co-PI
			Dr. Hukum Singh	Co-PI
3	Rain Forest Research Institute, Jorhat	ICFRE	Dr. Rajib Kumar Borah	Co-PI
			Dr. Dhruba Joyti Das	PI
			Shri Dinesh Kumar Meena	Co-PI
			Shri Ajay Kumar	Co-PI
			Dr. Nizara Borthakur	Co-PI
4	Himalayan Forest Research Institute, Shimla	ICFRE	Dr. Ranjeet Kumar	PI
5	Institute of Forest Productivity, Ranchi	ICFRE	Dr. Sharad Tiwari	PI

6	Institute of Wood Science and Technology, Bengaluru	ICFRE	Mr. Ritesh D Ram	PI
7	Arid Forest Research Institute, Jodhpur	ICFRE	Dr. Seema Kumar	PI
8	Tropical Forest Research Institute, Jabalpur	ICFRE	Dr S. Saravanan	PI
			Dr. S. C. Biswas	Co-PI
9	SSN College of Engineering, Chennai	Non- ICFRE	Dr R.Jayaparthathy	PI
10	Bharathidasan University, Tamil Nadu	Non- ICFRE	Dr R. Mohanraj	PI
			Dr. M. Ravichandran	Co-PI
11	ICAR - Directorate of Weed Research (DWR), Jabalpur	Non- ICFRE	Dr Sushil Kumar	PI

5. A Review Committee (RC) of the project is hereby constituted comprising of the National Project Coordinator (NPC) and Principal Investigators (PIs) of each of the institutional partners as in para 4 above. The Review Committee will be chaired and convened by National Project Coordinator. In the absence of the chairperson of the project, the members present in the meeting shall elect one of the members (PI) to chair the meeting. The RC will review the progress of the project at least once in 2 months. The progress report approved by the chairperson of the Review Committee shall be submitted to the Chairperson of Project Expert Group (Deputy Director General (Research), ICFRE) and Directors of all concerned ICFRE institutes within one week of the meeting held.
6. A Project Expert Group (PEG) will be constituted by the competent authority of ICFRE to monitor the project for achieving the defined project objectives within the time and costs projected. The Project Expert Group will meet at least once in six months. The meetings of the Project Expert Group will be facilitated and convened by ADG (Monitoring and Evaluation), Directorate of Research of the ICFRE. The Project Expert Group is empowered to recommend to ICFRE to revise the project including its objectives within the approved budget and time.
7. The meetings of the Review Committee and PEG may be held through video conferencing, whenever feasible.
8. Out of the total budget allocation of Rs. 455.98 lakhs for a project duration of 5 years (60 months), the Institute wise budget as detailed below is sanctioned as grant-in-aid:

8.1 Institute of Forest Genetics and Tree Breeding, Coimbatore

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	2.72	8.16	8.64	8.64	8.94	5.44	42.54
M&S (Consumables)	0.25	0.75	0.75	0.50	2.10	0.50	4.85
Travel	0.67	2.00	2.60	1.50	1.00	1.33	9.10
Field Research Expenses (FRE)	0.67	2.00	2.00	0.75	0.50	1.33	7.25
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							
Equipment & Accessories	3.40	2.40	1.50	2.20	1.00	0.00	10.50
Total	7.70	15.31	15.49	13.59	13.54	8.61	74.24

8.2 Forest Research Institute, Dehradun

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	1.28	3.84	4.32	4.32	4.32	2.56	20.64
M&S (Consumables)	0.17	0.50	0.50	0.50	1.00	0.33	3.00
Travel	0.33	2.50	2.50	1.00	1.00	0.67	8.00
Field Research Expenses (FRE)	0.33	1.00	1.00	1.00	1.00	0.67	5.00
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							
Equipment & Accessories	2.50	0.50	0.50	0.50	0.50	0.00	4.50
Total	4.61	8.34	8.82	7.32	7.82	4.23	41.14

8.3 Rain Forest Research Institute, Jorhat

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	1.28	3.84	4.32	4.32	4.32	2.56	20.64
M&S (Consumables)	0.33	1.00	1.00	1.00	0.50	0.67	4.50
Travel	0.67	2.50	2.50	2.50	1.50	1.33	11.00
Field Research Expenses (FRE)	0.17	1.00	1.00	1.00	0.50	0.33	4.00
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							
Equipment & Accessories	1.50	0.00	0.00	0.00	0.00	0.00	1.50
Total	3.95	8.34	8.82	8.82	6.82	4.89	41.64

8.4 Himalayan Forest Research Institute, Shimla

Head of expenditure	Allocation (Rs. in lakhs)						Total (Rs. in lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	1.26	3.78	4.02	4.02	4.02	2.52	19.62
M&S (Consumables)	0.25	1.00	1.00	0.50	0.50	0.50	3.75
Travel	0.67	1.50	1.50	1.50	1.00	1.33	7.50
Field Research Expenses (FRE)	0.50	1.00	1.00	1.00	1.00	1.00	5.50
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							
Equipment & Accessories	3.00	0.00	0.00	0.00	0.00	0.00	3.00
Total	5.68	7.28	7.52	7.02	6.52	5.35	39.37

8.5 Institute of Forest Productivity, Ranchi

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	1.92	5.76	6.48	6.48	6.48	3.84	30.96
M&S (Consumables)	0.08	0.25	0.50	0.50	0.50	0.17	2.00
Travel	0.67	2.50	2.50	2.00	1.00	1.33	10.00
Field Research Expenses (FRE)	0.67	2.00	2.00	2.00	1.00	1.33	9.00
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							
Equipment & Accessories	7.50	0.00	0.00	0.00	0.00	0.00	7.50
Total	10.84	10.51	11.48	10.98	8.98	6.67	59.46

8.6 Institute of Wood Science and Technology, Bengaluru

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M&S (Consumables)	0.17	0.00	0.00	0.00	0.00	0.33	0.50
Travel	0.10	0.30	0.00	0.00	0.00	0.20	0.60
Field Research Expenses (FRE)	0.23	0.70	0.00	0.00	0.00	0.47	1.40
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							
Equipment & Accessories	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.50	1.00	0.00	0.00	0.00	1.00	2.50

8.7 Arid Forest Research Institute, Jodhpur

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	1.26	3.78	4.02	4.02	4.02	2.52	19.62
M&S (Consumables)	0.17	1.00	1.00	1.00	0.50	0.33	4.00
Travel	0.33	1.00	1.00	1.00	0.50	0.67	4.50
Field Research Expenses (FRE)	0.33	1.00	1.00	1.00	1.00	0.67	5.00
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							
Equipment & Accessories	3.00	0.00	0.00	0.00	0.00	0.00	3.00

Total	5.09	6.78	7.02	7.02	6.02	4.19	36.12
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8.8 Tropical Forest Research Institute, Jabalpur

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	0.64	1.92	2.16	2.16	2.16	1.28	10.32
M&S (Consumables)	0.25	0.00	0.00	0.00	0.00	0.50	0.75
Travel	0.25	0.50	0.50	0.75	0.75	0.50	3.25
Field Research Expenses (FRE)	0.17	1.00	1.00	1.50	1.00	0.33	5.00
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							
Equipment & Accessories	1.00	0.00	0.00	0.00	0.00	0.00	1.00
Total	2.31	3.42	3.66	4.41	3.91	2.61	20.32

8.9 SSN College of Engineering, Chennai

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	0.64	1.92	2.16	2.16	2.16	1.28	10.32
M&S (Consumables)	0.17	0.50	0.50	1.00	1.00	0.33	3.50
Travel	0.33	1.00	0.50	0.50	1.00	0.67	4.00
Field Research Expenses (FRE)	0.17	0.50	0.50	0.50	0.50	0.33	2.50
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							
Equipment & Accessories	8.00	0.00	0.00	0.00	0.00	0.00	8.00
Total	9.31	3.92	3.66	4.16	4.66	2.61	28.32

8.10 Bharathidasan University, Tamil Nadu

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	0.64	1.92	2.16	2.16	2.16	1.28	10.32
M&S (Consumables)	0.25	1.00	1.00	0.50	0.50	0.50	3.75
Travel	0.08	0.25	0.25	0.25	0.25	0.17	1.25
Field Research Expenses (FRE)	0.17	0.75	0.25	0.50	0.25	0.33	2.25
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							

Equipment & Accessories	0.25	0.25	0.25	0.00	0.00	0.00	0.75
Total	1.39	4.17	3.91	3.41	3.16	2.28	18.32

8.11 ICAR - Directorate of Weed Research (DWR), Jabalpur

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	0.62	1.86	1.86	1.86	1.86	1.24	9.30
M&S (Consumables)	0.25	0.00	0.00	0.00	0.00	0.50	0.75
Travel	0.25	0.50	0.50	0.75	0.75	0.50	3.25
Field Research Expenses (FRE)	0.08	1.00	0.75	1.25	1.00	0.17	4.25
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							
Equipment & Accessories	1.00	0.00	0.00	0.00	0.00	0.00	1.00
Total	2.20	3.36	3.11	3.86	3.61	2.41	18.55

8.12 ICFRE, Dehradun Component of Budget

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
Institutional charges (10%)	5.36	7.24	7.35	7.06	6.50	4.49	38.00
Monitoring cost (5%)	2.68	3.62	3.67	3.53	3.25	2.24	19.00
Overall project escalation cost (5%)	2.68	3.62	3.67	3.53	3.25	2.24	19.00
Total	10.72	14.48	14.69	14.12	13.00	8.97	76.00

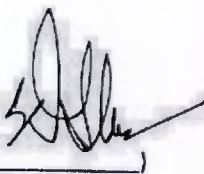
8.13 Total project outlay

Head of expenditure	Allocation (Rs. In lakhs)						Total (Rs. In lakhs)
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
RECURRING							
Salary	12.26	36.78	40.14	40.14	40.44	24.52	194.28
M&S (Consumables)	2.33	6.00	6.25	5.50	6.60	4.67	31.35
Travel	4.35	14.55	14.35	11.75	8.75	8.7	62.45
Field Research Expenses (FRE)	3.48	11.95	10.5	10.5	7.75	6.97	51.15
Contingencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITAL							
Equipment & Accessories	31.15	3.15	2.25	2.70	1.50	0.00	40.75
Total	53.58	72.43	73.49	70.59	65.04	44.85	379.98

Institutional charges (10%)	5.36	7.24	7.35	7.06	6.50	4.49	38.00
Monitoring cost (5%)	2.68	3.62	3.67	3.53	3.25	2.24	19.00
Overall project escalation cost (5%)	2.68	3.62	3.67	3.53	3.25	2.24	19.00
Grand total	64.30	86.91	88.18	84.71	78.04	53.82	455.98

9. The grant to institutes is debitable from **CAMPA project- AICRP**.
10. The institution/ organization receiving the grant will maintain a separate account of the project expenditure and shall submit a utilization certificate for the period ending 31st March, 30th June and 30th September and 31st December by 15th April, 15th July, 15th October and 15th January of the year respectively as per the formats given in the guidelines for AICRP. Further grant may be released only after submission of utilization certificate. ICFRE shall have the right to inspect the accounts of all the institutions/organizations pertaining to grant for the project.
11. The terms and conditions as received from MoEF&CC/ CAMPA National Authority from time to time and detailed in the Agreement executed by ICFRE with non-ICFRE institutions/organizations shall be read together with other terms and conditions mentioned in AICRP guidelines of ICFRE.
12. Director of the lead institute of ICFRE where NPC is placed will sign MoA with organization other than ICFRE before release of funds. Funds to such organization will be released after receipt of copy of signed MoA from the lead institute by ICFRE.
13. A copy of the approved research project is annexed.

Encl.: As above.



DDG (Research)

Directorate of Research, ICFRE, Dehradun

Copy for information and necessary action:

1. Deputy Director General (Administration), ICFRE
2. Directors of the concerned ICFRE Institutes (IFGTB, Coimbatore; FRI, Dehradun; RFRI, Jorhat; HFRI, Shimla; IFP, Ranchi; IWST, Bengaluru; AFRI, Jodhpur; TFRI, Jabalpur)
3. National Project Coordinator, IFGTB, Coimbatore
4. PIs of Non-ICFRE Institutes (SSN College of Engineering, Chennai; Bharathidasan University, Tamil Nadu; ICAR - Directorate of Weed Research (DWR), Jabalpur that the funds shall be released soon after signing of MoA
5. DDG (Research), ICFRE
6. ADG (M&E), ICFRE
7. DDO/ Accounts Officer, ICFRE
8. Master file, project file/Review Committee file/PEG file of the project AICRP- 7
9. Sr. P.S. to DG, ICFRE for kind information of DG, ICFRE

F. No. DST/TM/EWO/MI/CCUS/25 (G1)

Government of India
Ministry of Science & Technology
Department of Science & Technology
TMD (Energy, Water & Others)

Technology Bhavan, New Delhi

Dated: 20.01.2020

Sanction Order

Subject: Financial support for Mission Innovation – Innovation Challenge (IC3) CCUS project titled **“Bench-Scale Design and Development: Investigation of High-Frequency, High Intensity Ultrasonics for Carbon-Rich Solvent Regeneration in Solvent-Based Post-Combustion CO₂ Capture Process (PCCC) for Reducing CO₂ Capture Energy Demand”** led by **Dr. B. Ambedkar, SSN College of Engineering, Chennai.**

Sanction of the President is hereby accorded to the approval of the above mentioned project titled **“Bench-Scale Design and Development: Investigation of High-Frequency, High Intensity Ultrasonics for Carbon-Rich Solvent Regeneration in Solvent-Based Post-Combustion CO₂ Capture Process (PCCC) for Reducing CO₂ Capture Energy Demand”** with a total cost of ₹ 2,08,96,833/- (*Rupees Two crore eight lakh ninety six thousand eight hundred thirty three only with DST Share of ₹ 1,86,77,338/- and Lead organization share of ₹ 22,19,495/-*) to Consortia partners from SSN College of Engineering, Chennai and Indian Institute of Technology Madras, Chennai as per the following breakup :

<u>SSN Chennai</u>	1st-Year	Collab. Share – 1 st year	2nd-Year	3rd-Year	Total	Total Collab
Capital	6136336	2219495	2833452	--	8969788	2219495
General	2978877	--	2542920	2373533	7895330	--
sub total	9115213	2219495	5376372	2373533	16865118	2219495
<u>IIT Madras</u>						
General	565740	--	700740	545740	1812220	--
sub total	565740	--	700740	545740	1812220	--
Total Capital	6136336	2219495	2833452	--	8969788	2219495
Total General	3544617	--	3243660	2919273	9707550	--
Grand Total	9680953	--	6077112	2919273	18677338	--
Collaborator share (SSNCE, Chennai- 20% of total capital cost by Host institution)	--	2219495	--	--	2219495	--
Total Share (DST + Collaborator)	9680953	2219495	6077112	2919273	20896833	--

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With break up of a total cost of ₹ 1,68,65,118/- (*Rupees One crore sixty eight lakh sixty five thousand one hundred eighteen only*) sanctioned to SSN College of Engineering (SSNCE), Chennai for a duration of 3 years. The detailed breakup of the grant for Capital and General Components to SSNCE are given below:

General Component: ₹ 78,95,330/-

Capital Component: ₹ 89,69,788/-

Lead Organization (SSNCE, Chennai) share : ₹ 2219495/-

S. No	ITEM HEAD	1st-Year	collab.	2nd-Year	collab.	3rd-Year	collab.	Total (DST share)	Total collab. (share)
A	Capital - Non recurring								
1	Permanent Equipment and Fabricated System/Models - Lab-scale experimental setup fabrication	6136336	2219495	2833452	--	--	--	8969788	2219495
	SUB TOTAL (CAPITAL ITEMS)	6136336	2219495	2833452	--	--	--	8969788	2219495
B	Recurring								
1	Manpower								
	Research Associate - I - 01 nos. @ 47,000/- + 24% HRA	699360	--	699360	--	699360	--	2098080	--
	JRF/Doctoral Scholar - 01 no.s @ 31000/- + 24% HRA	461280	--	461280	--	461280	--	1383840	--
	Field Worker/Helper - 01 @ 18,000/- + 24% HRA	267840	--	267840	--	267840	--	803520	--
	Sub-total -Manpower	1428480	--	1428480	--	1428480	--	4285440	--
2	Consumables	489857	--	443900	--	304513	--	1238270	--
3	Contingency	50000	--	50000	--	50000	--	150000	--
4	Domestic Travel	40000	--	40000	--	40000	--	120000	--
	International Travel	250000	--	0	--	50000	--	300000	--
5	Other cost - Outsourcing, Process Control & Instrumentation - Lab view	280000	--	140000	--	60000	--	480000	--
6	Overhead Cost	440540	--	440540	--	440540	--	1321620	--
	SUB TOTAL (GENERAL)	2978877	--	2542920	--	2373533	--	7895330	--
	Total Cost (A+B)	9115213	2219495	5376372	--	2373533	--	16865118	2219495

2. The sanction of the President is also accorded to the release of ₹ 29,78,877/- (*Rupees Twenty nine lakh seventy eight thousand eight hundred seventy seven only*) to SSN College of Engineering (SSNCE), Chennai being the first instalment of grant under "General Component" for implementation of the above mentioned project.

Neelima
SCE

3. This sanction is subject to the condition that the grantee organisation will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

4. The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

5. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.

6. The grant-in-aid being released is subject to the condition that

a. A transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/Organisation under the appropriate rules of the grantee organisation while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organisation immediately on receipt of the grant:

b. While submitting Utilisation Certificate/Statement of Expenditure, the organisation has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

7. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e., www.Bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/Utilization Certificate for considering subsequent release of grant/closure of project accounts. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

8. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

9. In case the scheme provides for payment of honorarium / remuneration / fellowship / scholarship to the PI, a para may suitably be incorporated in the DSO to the effect that "PI is not drawing any emoluments/ salary/fellowship from any other project either supported by DST or by any other funding agency.

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10. The account of the grantee organisation shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organisation is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

11. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organisation in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

12. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

13. The expenditure involved is debitable to-

Demand No 86	Department of Science and Technology for the year 2019-20
3425	Other Scientific Research (Major Head)
60	Others (Sub-Major Head)
789	Special Component Plan for Scheduled Castes
15	Innovation, Technology Development and Deployment
15.00.31	Grants-in-aid for General for the year 2019-2020

14. The amount of ₹ 29,78,877/- (*Rupees Twenty nine lakh seventy eight thousand eight hundred seventy seven only*) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to **SSN College of Engineering (SSNCE), Chennai**. The bank details for electronic transfer of funds through RTGS are given below:-

Name of the Account Holder	The Principal, SSN College of Engineering
Name of the bank	Tamilnad Mercantile Bank Ltd.,
Branch Address	No. 3, Thiruvalluvar Salai, Anna Nagar, Thiruvananthapuram, Chennai, Tamil Nadu 600041
IFSC code	TMBL0000158
Account Number	158100050070022

15. As per Rule 234 of GFR 2017, this sanction has been entered at **S. No. 568** (TMD,WE) in the register of grants maintained in the Division for the scheme (ITDD).

16. As per Rule 237 of GFR 2017, Time Schedule for submission of annual accounts - The dates prescribed for submission of the annual accounts for Audit leading to the issue of Audit Certificate by the Comptroller and Auditor General of India and for submission of annual report and audited accounts to the nodal Ministry for timely submission to the Parliament are listed below:-

- (i) Approved and authenticated annual accounts to be made available by the Autonomous Body to the concerned Audit Office and commencement of audit of annual accounts-30th June
- (ii) Issue of the final SAR in English version with audit certificate to Autonomous Body/ Government concerned -31st October
- (iii) Submission of the Annual Report and Audited Accounts to the Nodal for it to be laid on the Table of the Parliament -31st December

17. The organization/Institute/University should ensure that the technical support/financial assistance provided to them by the Department of Science and Technology should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraph of their Annual Report.

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18. It is important that the information and knowledge generated through the use of these funds are made publicly available as soon as possible. In order to achieve the aforementioned objectives, each institution is encouraged to set up its own inter-operable institutional open access repository ("IR") for its research papers and review articles published in peer reviewed journals. The Ministry of Science and Technology has set up a central harvester (www.sciencecentral.in) that will harvest the full text and metadata of these publications. Kindly update the findings accordingly.
19. The organization named **SSN College of Engineering (SSNCE), Chennai** and partnering institutes agrees to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under its control on the lines indicated by the Government of India.
20. The goods (consumables/equipment) available in GeM portal are to be procured mandatorily online through GeM only.
21. PI is also informed to adhere to the guidelines of the Mission Innovation Call on IC#3.
22. This issues with the concurrence of IFD Vide their **Concurrence Dy. No. 5208 dated. 20.01.2020**


(Dr. Neelima Alam)
Scientist-E

Email: neelima.alam@nic.in

To

The Pay and Accounts Officer, DST, New Delhi.

Copy for information and necessary action to:

1. Cash Section (3 copies) for preparing the bill and remitting the amount to the above grantee.
2. Accounts Section, DST, New Delhi.
3. IFD, Department of Science & Technology, New Delhi.
4. Director of Audit (CW & M-II), AGCR Building, IP Estate, New Delhi.
5. **Dr. Ambedkar Balraj**
Assistant Professor
Chemical Engineering
Department of Chemical Engineering, SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Kanchipuram District, 603110
Email : ambedkarb@ssn.edu.in
- Dr. Nagarajan Ramamurthy**
Professor
Chemical Engineering
Department of Chemical Engineering Indian Institute of Technology (IIT) Madras, Chennai 600036, India
Email : nag@iitm.ac.in
Phone : 04422574158
6. Sanction folder
7. Office Copy
8. Head- TMD (E,W & Others)

Dr. Neelima Alam
Scientist-E


(Dr. Neelima Alam)
Scientist-E

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on has been selected by ISHRAE Student Project Grant Committee - chemmalaeswami@gmail.com - Mobile No. 98404 44444

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SRPG_UG_48
Title: Experimental analysis of an Energy Recovery Ventilator (ERV) combined with UVGI and air filtration system (UVGI and air filtration system) in non-ventilated spaces.
Institute: SSN College of Engineering
Chapter: ISHRAE Chennai Chapter
Project Team:

Chemmal Swami Durai C

Chemmal Swami Durai C,
ISHRAE is pleased to inform you that your ISPG-UG application has been selected by Student Project Grant Committee & the Grant of Rs. 50000/- to support the following project: **Experimental analysis of an Energy Recovery Ventilator (ERV) combined with UVGI and air filtration system (UVGI and air filtration system) in non-ventilated spaces.**

You are requested to contact your local ISHRAE Chennai Chapter, Chapter President / Student Chair for the sanction order and other formalities for the successful completion of project as per the Grant Guidelines and in keeping with the Schedule of completion.

Please do not hesitate to contact us for any further clarification.

Kind regards,
Chair - SRPG-UG Committee
Student Activities Committee
Indian Society of Heating Refrigerating and Air-Conditioning Engineers (ASHRAE)
-1104, 11th Floor, Chiranjiv Tower 43, Nehru Place,

SRPG - UG application h

11th Sep 2019To,
Principal
SSN College of Engineering
Kalavakkam – 603110 (TN)**GRANT-IN-AID SCHEME OF AERONAUTICS R&D BOARD**

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 12th Feb 1971 and in exercise of power delegated vide SI No. 3.1 of GoI, MoD letter No. DARO/DBFA/83226/M/01/2031/D (R&D) dated 30 Jul 2010 & DRDO/DBFA/83226/M/01 dated 05 Feb 2015 & MoD letter No. DRDO/DFMM/PL/83226/M/01/1174/D(R&D) dated 28 Jun 2018. I am directed to convey the sanction of the board for the following project for the year **2019-2020**.

TITLE OF THE PROJECT: "Development of high - Curie temperature piezoceramics for aviation applications"

SANCTION for the First year funds to be released during the year 2019-20 to the tune of **Rs 10.187 lakhs** is accorded.

Principal Investigator (PI) : Dr. G.Anandha Babu

Co-Principal Investigator : Dr. S. Masilla Moses Kennedy

2. Total estimated funds for the project is **Rs 12.297 lakhs**. However, the same is subject to revision based on performance and review. The year-wise break-up is given below:-

Sl.No.	Budget Head	Funds required (in lakhs)		
		I year	II year	III year
1.	Salary	----	----	----
2.	Equipments (Annexure: A)	7.587	----	----
3.	Consumable	1.80	1.26	----
4.	Contingency	0.50	0.20	0.20
5.	Travel	0.30	0.25	0.20
6.	Overheads	----	----	----
	Sub Total	10.187	1.71	0.40
	Total	12.297		

GrandTotal = Rs 12.297 lakhs (Rupees Twelve Lakhs Twenty Nine thousand Seven Hundred only)

3. Deliverables of the project are:

- a) Ten number of device quality lead-free piezoelectric single crystals of NBT-0.062BT with the size of $5 \times 5 \text{ mm}^2$ will be delivered.

Domain Lab : DMRL Hyderabad
Coordinating Scientist : Dr Arut Chalvan

4. 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 executive financial authority of the Institution and audited by the competent audit authority 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.

5. The duration of the project is **Three years**. 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.

6 **SSN College of Engineering, Kalavakkam (TN)** to open a saving bank account and refund the accrued interest to AR&DB. In case of common account held by institute, the institute can reflect the interest accrued separately and refund the accrued interest.

7. 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.

8. On completion of the project unspent balance if any should be deposited through MRO at your end against AR&DB sanction project No. "2031928" to the PCDA (R&D), New Delhi A/c No. 4055000004 and 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 Sett with a copy of MRO for necessary records or unspent balance should be sent through Demand Draft drawn in favour of PCDA (R&D), New Delhi to AR&DB.

9. A list of inventory of equipment purchased out of AR&DB grant shall be intimated year wise along with 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. The conditions of retention of equipment by the grantee institute will be as under

(i) DRDO or any associate lab will make use of the equipment(s) retained in the institute under the subject project as and when required without any payment.

(ii) Any expenditure incurred for maintenance/up-keep of the above equipment will be borne by the institute.

(iii) In case of disposal of the above equipment, required by the institution, due to non performance, prior approval of DRDO to be obtained and money thus generated after sale will be refunded to DRDO in proportionate share.

10. 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 addresses :

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

11. Instruction and Conditions of Ownership of intellectual properties generated by this project is available in www.drdo.gov.in/drdo/boards/ardb/rules & grants-patents.htm. (A copy of govt. Letter regarding IPR is enclosed as Annexure B).
12. Instruction and Conditions of Publication of Technical Papers related to this project is available in www.drdo.gov.in/drdo/boards/ardb/index.htm.
13. 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 Audit Authority of Institution/organization signed in ink in duplicate.
14. PCDA (R&D), West Block V, RK Puram, New Delhi-110066 will make disbursement of money as sanctioned.
15. 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.
16. Contingent bill (in triplicate) duly completed and stamped 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.
17. This is issued with the concurrence of IFA (R&D), New Delhi vide their UO No: IFA/R&D/0031/AR&DB/20196/Vol-I/0754 dated 03/09/19.
18. Sanction code is MSRB/TM/ARDB/GIA/19-20/059 dated 11/09/19.


(Dr. Maitreyee Nanda)
Secretary
AR&DB

Copy to:-

- (1) Principal CDA(R&D), West Block V, RK Puram, New Delhi-110066
- (2) IFA (R&D), DRDO Bhawan
- (3) Dy. Director of Audit, Defence Services, Southern Command, Pune – 411 001
- (4) Principal Director of Audit, Air Force & Navy, 'M' Block, N. Delhi-110 001
- (5) Prof. Amol A Gokhale, Convenor TC (Former DS & Director DMRL, Hyderabad), Mechanical Engineering Department, IIT Bombay, Powai, Mumbai- 400076
- (6) Dr. G.Anandha Babu , Asst. Prof, SSN College of Engg, Kalavakkam – 603110 (TN)
- (7) Dr. S. Masilla M Kennedy, Asso. Prof, SSN College of Engg, Kalavakkam – 603110
- (8) Dr DK Das (Co-ordinator M&M Panel), Sc 'G' , DMRL, Kanchanbagh, Hyderabad - 500058
- (9) Dr. Arut Chalvan, Sc F, DMRL, Kanchanbagh, Hyderabad – 500058
- (10) Director, DMRL, Kanchanbagh , Hyderabad - 500058

18.06.2020

Prof. Hajime OKAMOTO,
Director of the Research Institute for Applied Mechanics,
on behalf of Chiharu KUBO, President of Kyushu University

Dear Prof. Hajime OKAMOTO,

This letter sets forth my understandings for **SSN Research Centre, SSN Institutions** researcher's conducting the joint use and/or joint research at Joint Usage/Research Center for Applied Mechanics of the Research Institute for Applied Mechanics, Kyushu University (hereinafter referred to as the "Center") which is defined as below, and I, on behalf of **SSN Research Centre, SSN Institutions** hereby ensure that:

1. the researcher, **Dr. M. Srinivasan**, will comply with the regulations prescribed in the "Handling Code for Joint Usage/Research Center for Applied Mechanics of the Research Institute for Applied Mechanics" (hereinafter referred to as the "Handling Code") and any other applicable regulations/rules of Kyushu University during his stay at the Center;
2. any research collaborator who is described in the "Joint Research Application Form" will comply with the Handling Code;
3. the researcher and research collaborator will never use the Center for military research purpose, and any research result created through his/her research activities at the Center will never be used or intended use for military purpose by my institution (or university) or any other third party; and,
4. any agreement on research activities may be concluded by and between my institution (or university) and Kyushu University as necessary upon Kyushu University's request, in that case, I will have the researcher and research collaborator comply with such agreement.

Details

Adoption No.: No.17_20RE-4
Research Representative: Dr. MANICKAM Srinivasan
Research Title: Renewable Energy Dynamics
Facility Caretaker: Prof. Kouichi KAKIMOTO
Term: 01/Apr./2020 ~ 31/Mar./2021

If this letter correctly sets forth your understandings above between your institution (or university) and Kyushu University, please kindly so indicate by signing this letter and retaining a duplicate copy for your record.

(Signature)



Name: Prof. P. Ramasamy
Title: Director
Institution: SSN Research Centre, SSN Institutions
Date: 18.06.2020

DIRECTOR
SSN RESEARCH CENTRE
SSN INSTITUTIONS
KALAVAKKAM - 603 110.



Sanction Order

Date: 15/07/2019

Sub: Grants to TBIs for further development of 11 Ideas prototyped during SIH2018

The Smart India Hackathon 2018 (SIH2018) Committee had selected hardware projects conceptualized by 12 teams for further development and to help them build start-ups upon these innovations. These 12 teams had prototyped their ideas during the grand finale of SIH2018 Hardware Edition. Below is the list of the aforementioned teams and their corresponding incubators.

Sr.No	Team Name	Institute	Team Leader Contact Details	Selected Incubation Centre	Account Details of TBIs	Account No
1	whistling cookers	Avinashilingam Deemed University for Women	Name: Mounica.C.R Email:mounicaravichandran@gmail.com Phone: 9943415215	Forge Incubator	Coimbatore Innovation and Business Incubator	914010040254307
2	BVPSIHS	Bharati Vidyapeeth's College Of Engineering	Name: Saksham Madan Email : sakshammadan001@gmail.com Phone: 9716017643	Bharati Vidyapeeth's College Of Engineering	Principal, Bharati Vidyapeeth College of Engineering New Delhi	31976258020
3	BRAMHANS H	Shri Shankaracharya Group of Institutions	Name: Jaideep tiwari Email : JAIDEEP4UALL@GMAIL.COM Phone: 8770858176	BHAU Incubation Center	COEP'S Bhau Institute of Innovation Entrepreneurship and Leadership	37374129991
4	The Gladiators	G. H. Raisoni College Of Engineering, Nagpur.	Name: Nihal Wargantiwar Email : wargantiwar_nihal.ghrceme@raisoni.net Phone: 9689794809	G. H. Raisoni College Of Engineering, Nagpur	Director, G.H Raisoni College of Engineering	1404101018350
5	rainbow six	Vidya Academy of Science & Technology	Name: Nikhil P S Email : nikhilpsathyanathan@gmail.com Phone: 9995275909	Forge Incubator	Coimbatore Innovation and Business Incubator	914010040254307
6	TechEEE1	Sri Sivasubramaniya Nadar College Of Engineering	Name: Vignesh R Email : vigneshravi130798@gmail.com Phone: 9092937550	Sri Sivasubramaniya Nadar College Of Engineering	The Principal, SSN College of Engineering	158100050070022
7	Prayaas	Pillai College of Engineering	Name: Rushikesh Namdeo Shirke Email : shirusnam15@student.mes.ac.in Phone: : 8898928104	Rambhau Mhalgi Prabodhini Foundation/ Pillai College of Engineering	Ravindra Sathe, Director	918010103185234
8	The Skyporters	R.V. College of Engineering	Name: Supreeth Y S Email : supreethys.is15@rvce.edu.in Phone: 8095375309	Jain University Incubation Center	Jain University Incubation Center - Innovation	60333009757

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Sr.No	Team Name	Institute	सत्यमेव जयते Team Leader Contact Details	Selected Incubation Centre	Account Details of TBIs	Account No
9	SLICK	Techno India Njr Institute Of Technology	Name: LOKESH PURI GOSWAMI Email : 14etcce030@technonjr.org Phone: 9694151808	Techno India Njr Institute Of Technology	Techno India Njr Institute of Technology	12731450000045
10	vision coders	L.J.Institute Of Engineering & Technology	Name: Vrushang Girishbhai Patel Email : vrushangpatel25@gmail.com Phone: 9714728457	L.J.Institute Of Engineering & Technology	L. J. Knowledge Foundation	104201000010727
11	Vidyut	Cambridge Institute Of Technology	Name: Pulkit Jain Email : pulkitjn97@gmail.com Phone: +91-9852222148.	36 Inc Raipur	CEO CHIPS 36 INC	0049104000558020
12	Water Cops	Moradabad Institute Of Technology	Name: Yash Khanna Email : khannayash03@gmail.com Phone: 9760265427	Netaji Subhas Bose University of Technology		

However, upon follow-up with the teams, Team No. 12, Water Cops lead by Mr. Yash Khanna from Netaji Subhas Bose University of Technology (NSUT) expressed reluctance to take their idea forward. Hence, the grant amount to team Water Cops is hereby cancelled.

1. Sanction amount of Rs. 1.1 crore is hereby conveyed by the competent authority to the grantees.
2. The sanction is issued in exercise of the power delegated to All India Council for Technical Education and MHRD's Innovation Cell and other terms & conditions laid down for the purpose.
3. The sanctioned amount can be debited under the budget of MHRD's Innovation Cell (may be referred as MIC or Cell).
4. Amount covered by this head shall be kept separately and would not be mixed with other funds.
5. AICTE/MIC or its any nominee shall have the right to check/verify the accounts to satisfy that the funds have been utilised for the purpose for which it was sanctioned.
6. The Technology Business Incubators (may be referred as TBIs or Incubation Centres) shall maintain proper accounts of the expenditures out of the grant, which shall be utilised only on approved items of grant.
7. The assets acquired wholly or substantially of the MHRD's Innovation Cell's grant shall not be disposed or encouraged or utilised for the purposes other than those for which it was given without proper sanction of the Cell or Council and should, at any time the Incubator ceased to function, such assets shall revert to the MHRD's Innovation Cell or All India Council for Technical Education.
8. The total amount of grant that will be given to each project from AICTE/MHRD for deployment of hardware projects under TBIs would not exceed Rs. 10 Lakh for SIH Hardware projects. The grant amount will be transferred to TBIs directly by AICTE/MIC and the TBIs will release the grant to the teams in 3 instalments.

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9. The teams will be incubating in the TBIs for 9 months with a stipend of Rs. 5000/month/member which would be covered under the total grant amount of Rs. 10 Lakh.
10. The incubation period is up to 9 months. But on case to case basis, the incubation period can be extended up to 3 more months with NO stipend, where the teams can utilize the resources.
11. TBIs will be directed to utilise the grant under 3 instalments. In the first 3 months TBIs can utilise up to 5 Lacs followed by 2.5 Lacs+2.5 Lacs in the following two instalment periods.
12. AICTE/MIC will not have any share/stake in the incubating teams or in their start-ups.
13. As per the rules of individual TBIs, few TBIs might claim some share/stake in the teams or their start-ups. AICTE/MIC will not be a part of it. This should be negotiated between the TBIs and the incubating teams.
14. Mentors are allowed to help the incubating teams during their deployment period but they will not get the stipend or any other financial support from the AICTE/MIC grant money.
15. TBIs will help their incubating teams with all the required activities and networks.
16. While the teams will start working in their respective TBIs to take their projects forward, in case any team member needs to be replaced or removed from the original winning team of SIH hardware edition, the teams need to inform MIC in advance with an NOC from the older members of the team & once approved from MIC, they will be able to change the members, with other rules being constant. Once TBI is contacted by MIC, they will allow to make the changes.
17. MIC team will visit and take an update every 3 months about the progress of the projects. The TBIs will be directed to submit the review to MIC every 3 months.
18. The total grant of Rs 10 Lacs has been distributed into following heads.

Sl. No.	Type	Details	Description	Upper Limit
1	Recurring	Stipend	Stipend upto 6 members per team at the rate of Rs. 5000 per month for upto 9 Months	₹ 2,70,000.00
2		Incubation charge	This includes incubator rental charges and usage of basic infrastructure for Rs. 4000 per month for upto 9 months	₹ 1,35,000.00
3		Mentoring	Time to time mentorship by external experts	₹ 1,00,000.00
4	Non Recurring	Consumables	Procurement of consumables, including IT Infrastructure, for Product Development, strictly related & limited to the project. This will NOT include equipment for personal uses & also laptops, computers, cameras, etc.	₹ 1,50,000.00
5		R&D and Product Development	R&D, Product Development, Designing & Fabrication Cost	₹ 1,50,000.00
6		IPR	For patents, trademarks or copyrights filing.	₹ 80,000.00
7		Domestic Travel	This covers travel cost for the student team for business development purpose only inside India. NO international travel will be covered under this budget.	₹ 1,50,000.00
8		Marketing & Business Development	This covers cost for physical, digital, other marketing, website development and product launch event cost.	₹ 2,00,000.00

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9	Non Recurring	Company Incorporation Cost	This covers cost for company incorporation and related forms including DSC, DIN, RUN, SPICe, PAN and TAN form etc.	₹ 50,000.00
10		Program management	Managing day to day work by the incubator	₹ 70,000.00
11		Miscellaneous	This covers cost for contingencies and sundry expenses.	₹ 1,45,000.00
Total Grant				This will NOT exceed Rs. 10,00,000 per project

19. In case of poor progress of the projects, the next level of funding instalment shall not be released by TBI to their respective team(s).

20. Accommodation, food and any personal travel will not be covered under the MIC grant.

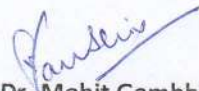
21. Purchase of laptops, computers, printers, telephone, server or any such non-recurring equipment will not be covered under this grant.

22. The unused amount under each budget head has to be returned to AICTE/MIC with UC. The unused amount under one head cannot be used under any other budget head.

23. The unutilised and undisbursed amount shall be returned in the form of Demand Draft payable in favour of Innovation Cell Account, New Delhi along with all related documents as mentioned previously and progress report of the Post-development activities of Smart India Hackathon 2018 Hardware edition before 6 months from the date of end of project.

Sanction of Rs 1.1 Crore (Rupees one crore ten lacs) is hereby conveyed by the competent authority towards Post Hackathon Development of Hardware Projects of SIH2018.

This is issued with the approval of the competent authority.


Dr. Mohit Gambhir
Innovation Director

Distributions:

1. Advisor (Finance), AICTE - with request to release the payment to the concerned TBIs
2. All Concerned TBIs:
 - Forge Incubator / Coimbatore Innovation and Business Incubator
 - Bharati Vidyapeeth's College Of Engineering
 - BHAU Incubation Center
 - G. H. Rasoni College Of Engineering, Nagpur
 - Sri Sivasubramaniya Nadar College Of Engineering
 - Rambhau Mhalgi Prabodhini Foundation/ Pillai College of Engineering
 - Jain University Incubation Center
 - Techno India NJR Institute Of Technology
 - L.J.Institute Of Engineering & Technology
 - 36 Inc Raipur
 - Netaji Subash Bose University of Technology
3. Institutes to which the teams belong:
 - Avinashilingam Deemed University for Women
 - Bharati Vidyapeeth's College Of Engineering

- Shri Shankaracharya Group of Institutions
- G. H. Raison College Of Engineering, Nagpur.
- Vidya Academy of Science & Technology
- Sri Sivasubramaniya Nadar College Of Engineering
- Pillai College of Engineering
- R.V. College of Engineering
- Techno India Njr Institute Of Technology
- L.J. Institute Of Engineering & Technology
- Cambridge Institute Of Technology
- Moradabad Institute Of Technology

4. File

Date: 29.11.2019

F.No.9- 72/RIFD/MOD/Policy-I/2018-19

All India Council for Technical Education
(A Statutory Body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



MODROB - Sanction Letter

F.No.9-78/RIFD/MOD/Policy-1/2018-19

Date: 02.12.2019

To,

The Drawing and Disbursing Officer,
All India Council for Technical Education,
Nelson Mandela Marg, Vasant Kunj,
New Delhi- 110070.

Sub: Release of a sum of Rs.880000/- (Rupees Eight Lakh Eighty Thousand Only) being the Grant-in-Aid under the scheme Modernization and Removal of Obsolescence (MODROB) for the year 2018-19 payable during the current financial year 2019-20- reg.

Sir,

With reference to the proposal submitted by the institute, this is to convey that the sanction of the Council for payment of Rs.1100000/- (Rupees Eleven Lakh Only) as Grant-in-Aid under the Modernization and Removal of Obsolescence (MODROB) scheme, as per details given below:

1.	Name and address of the Beneficiary Institution:	Director/ Principal/ Registrar, SRI SIVASUBRMANIYA NADAR COLLEGE OF ENGINEERING, RAJIV GANDHI SALAI (OMR) KALAVAKKAM - 603 110 KANCHIPURAM DIST TAMIL NADU Tamil Nadu -603110.		
2.	Title of Project:	Modernization of Renewable Energy Laboratory		
3.	Name of Coordinator:	Dr. KAMARAJ V		
4.	Duration of the project:	2 Years		
4.	Total Grant-in-aid Sanctioned:	Total: Rs.1100000/-	Non-Recurring (85%): Rs.935000/-	Recurring (15%): Rs.165000/-
5.	Amount to be released during the year 2019-20:	1st Installment Rs.880000/-	Non-Recurring (85%): Rs.748000 /-	Recurring (15%): Rs.132000/-
6.	Sanctioned grant-in-aid is debitable to:	Major Head 601.18(a) Gen. (Plan Head)		

1. The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/Principal/ Registrar of the Institute through RTGS/PFMS.
2. This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

THE INSTRUCTIONS/GUIDELINES TO BE FOLLOWED BY UNIVERSITY/INSTITUTION

I. Release of funds:

- a. The Principal/ Director of the institute and the Coordinator of the project are hereby requested to verify the correctness of the undermentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released:

Institute PAN No.	Bank Name	Bank Branch Name	Branch Addresses	Account Holder Name	Account Type	Account Number	IFSC
AAATS2 240Q	tamilnadu mercantile bank ltd.	Thiruvannamiyur	No.3, Thiruvalluvar Salai, Chennai - 600041	The Principal, SSN College of Engineering	Saving Account	15810005007 0022	TMBL000 0158

In case of any omission the same should be reported to AICTE immediately.

- b. The sanction is issued in exercise of the powers delegated to the council and other terms & conditions laid down in the guidelines of the scheme.
- c. 100% grant of the sanctioned amount is being released to Government/Govt. Aided institutions. Utilization Certificate (UC) and other requisite documents are to be submitted within one month of the completion of the project.
- d. To self-financed/Pvt. Institutions 80% of the sanctioned amount is being released as first installment followed by 20% as reimbursement after receipt of UC and other requisite documents as specified in terms & Conditions of MODROB Scheme.

II. Maintenance of accounts:

- a) The Institute shall strictly follow the provisions laid down in the scheme document and sanction order No. F.No.9-78/RIFD/MOD/Policy-1/2018-19 Dated 02.12.2019 issued by this office. All correspondences related to the project must contain this number along with year of sanction of the project; failing which correspondence will not be entertained
- b) Funds covered by this grant shall be kept separately and would not be mixed up with other funds, so as to know the amount of interest accrued on the grant AICTE.
- c) The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure (list enclosed).
- d) The Council or its nominee shall have the right to check /verify the account to satisfy that the fund has been utilized for the purpose for it was sanctioned.
- e) The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal / Director / Registrar shall intimate about the receipt of the grant to AICTE. Any expenditure incurred prior to the issuance of the approval letter will not be allowed to be adjusted in the grant and if the Institution / University do not take the project work within one month of the receipt of the grant, the approval shall ipso facto lapse.
- f) After receipt of the grant from AICTE, the Institute shall send a confirmation to AICTE within 2 months of receipt of grant that the sanctioned project has been started/is in progress.

III. Refund of grant by way of a demand draft in favour of Member Secretary, AICTE, New Delhi:

- a) If the college/institute does not have the Letter of Approval (LOA) or Extension of Approval issued by AICTE for the academic year 2019-20, the fund released should be immediately refunded to AICTE with interest accrued thereon.
- b) If project is not started within six months of the issuance of this Offer Letter, the released amount, along with interest accrued thereon, has to be necessarily returned to AICTE.
- c) In any case, if the institute is required to refund the grant or interest accrued thereon or balance amount, the amount will be refunded to AICTE.
- d) It may be ensured that the project is completed within the stipulated time. If the project is not completed in time, no further extension will be granted in any case and institute has to refund the entire amount to AICTE.
- e) As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.

IV. Submission of documents by college/institution after completion of Project/Subsequent years:

The following mandatory relevant documents are required to be submitted by the college/institution within one month of the completion of the project: -

- a) Feedback form in the prescribed proforma.
- b) The Annual Progress Report (APR) in the prescribed format along with the original Statement of actual Expenditure in the prescribed proforma duly signed by the Head of the institution and shall be submitted to AICTE not later than one month after completion.
- c) The Utilization Certificate (UC) supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the AICTE immediately after completion of the project. It should contain the head-wise break up

of expenditure made from the grant-in-aid provided by the Council. Audited Statement of Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format and GFR-19 shall be submitted to the Council.

- d) In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed by a Chartered Accountant (with membership no., full address & stamp). Photocopies of formats are enclosed.
- e) Program Evaluation Committee (PEC) is required to be constituted at Institutional level. The constitution of the PEC shall be asunder:
 - i. Principal/Director/Registrar of the Institution(Chairperson)
 - ii. Coordinator of the project (Member Secretary),
 - iii. Two HODs and one subject expert(Members).
 - iv. The members of the said PEC shall not be below the rank of Associate Professor. The minutes of the meetings are to be submitted to the Council at end of the project along with other mandatory documents.
- f) Project completion report project indicating the activities undertaking, number of students benefited, laboratory works photographs of students, together with their views is to be submitted.
- g) Attested photocopies of supporting vouchers/bills of expenditure incurred for the completion of Project.
- h) Photographs of equipment's purchased.
- i) The balance amount of the grant will be reimbursed to the university/institution only on submission of the above documents. On receipt of these documents, the total amount of balance of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be released, as second installment, in favour of the beneficiary institution.

V. General instructions

- a) The amount of interest accrued on the grant should be treated as part of the grant to be utilized for that particular project. However, the interest amount accrued along with grant disbursed should not exceed the total grant sanctioned for the project. The Institute receiving the grant should reflect the same in the audited statement of accounts/ utilization certificate and may either refund the interest amount to AICTE or AICTE shall adjust the same in the next installment of grant before its release.
- b) Any unavoidable circumstantial change in the project with respect to name of Project Coordinator for the MODROB project would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No.9-78/RIFD/MOD/Policy-1/2018-19 in your future correspondence.
- c) The grantee shall maintain an audited record of assets acquired wholly or substantially out of the Grant-in-Aid and a register of assets shall be maintained by the Institute in the prescribed form i.e.GFR-19.
- d) The College / Institute receiving grant under MODROB is expected to put up a plaque at the main entrance of the Lab/Department, which has been modernized using the grant. All the equipment procured through the project should be super scribed with AICTE project file number.
- e) The assets acquired wholly or substantially out of grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given without proper sanction of the AICTE and should at any time the institution cease to function, such assets shall revert to the AICTE.
- f) The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE/ Government of India from time to time. GOI GFR rules (@<https://doe.gov.in/order-circular/general-financial-rules2017-0>) should be followed during utilization of grant.

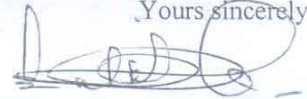
Date:29.11.2019

F.No.9- 78 /RIFD/MOD/Policy-I/2018-19

List of Equipment's approved :

Name of Equipments
Solar array simulator (Chroma Make)
MPPT Solar Charge Controller
FPGA Artix 7 processor trainer
FLUKE 521 Battery Analyzers
PEM Fuel cell trainer kit
Super capacitors bank with protection circuit
GaN DC-DC Converter for PV
Megger PVM210 Solar Irradiance Meter
Single-phase PQ analyzer

Yours sincerely,



Prof. Dileep N. Malkhede
Advisor-1 (RIFD)

16 DEC 2019

Copy forwarded for information and necessary action to:

1. ☒ Name and Address of the Coordinator,
Dr. KAMARAJ V,
SRI SIVASUBRMANIYA NADAR COLLEGE OF ENGINEERING,
RAJIV GANDHI SALAI (OMR) KALAVAKKAM -
603 110 KANCHIPURAM DIST TAMIL NADU Tamil Nadu -603110.
2. The Registrar / Director / Principal,
SRI SIVASUBRMANIYA NADAR COLLEGE OF ENGINEERING,
RAJIV GANDHI SALAI (OMR) KALAVAKKAM -
603 110 KANCHIPURAM DIST TAMIL NADU Tamil Nadu -603110
3. Guard File

Prof. Dileep N. Malkhede
Advisor-1 (RIFD)



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
Telefax : 044 - 2230 1552

Web : www.tanscst.nic.in
E-mail : ms.tanscst@nic.in/enquiry.tanscst@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

9364

04.11.2019

To
Dr.S.Radha
Professor & HOD, Dept. of ECE
SSN College of Engineering
Kalavakkam, Chennai – 603 110

Sir/Madam,

Sub: TNSCST – S&T Project on “Development of Ultrasonic sensors for monitoring heavy mineral accumulation in the littoral zone of Mahabalipuram Coast” –Approval intimation – Reg.

Ref: Your proposal dated 13.02.2019

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.4,80,000/- for **Two** years. First year approved grant will be Rs.3,15,000/- (Rupees Three lakh and fifteen 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
SSN College of Engineering
Kalavakkam, Chennai – 603 110



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்
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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-PRG/AR/2018-2019

04.11.2019

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Dr.S.Radha
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Member Secretary

Encl: as above

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The Principal
SSN College of Engineering
Kalavakkam, Chennai – 603 110

BUDGET DETAILS

1. Title of the project:

Development of ultrasonic sensors for monitoring heavy mineral accumulation in the littoral zone of Mahabalipuram coast

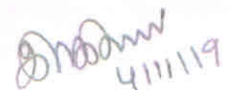
Name and address of the principal investigator :

Dr S Radha
Dept. of ECE
SSN college of Engineering
Kalavakkam-603110

Amount & Duration: **Rs.4,80,000/- for TWO years**

Approved Budget

Sl.no	Description of the item	Amount (Rs.)		
		First year	Second year	Total
1	Research fellow@10000/-/per month	1,20,000.00	1,20,000.00	2,40,000.00
2	Equipment	1,50,000.00	nil	1,50,000.00
3	Consumables, Testing, etc	25,000.00	25,000.00	50,000.00
4	Travel	5,000.00	5,000.00	10,000.00
5	Miscellaneous	5,000.00	5,000.00	10,000.00
6	Overhead charges	10,000.00	10,000.00	20,000.00
Total		3,15,000.00	1,65,000.00	4,80,000.00


MEMBER SECRETARY

No.TDP/BDTD/23/2019(General)
Government of India
(Technology Development Programme)

Technology Bhawan
New Delhi-110 016.
Dated, 04.07.2019

ORDER

Sub: - Financial assistance for the project entitled "Development of Cost Effective Wearable Semi-Automatic Insulin Delivery Smart Micro System" **Dr. Sreeja B S, Associate Professor, ECE, Sri Siva, Subramaniya Nadar College Of Engg, Kalavakkam, Chennai 603110** - - Release of the first installment regarding.

1. Sanction of the President is conveyed for the sanction of Rs. 35,03,500/- (Rupees Thirty five lakh three thousand five hundred only) i.e. Rs. 30,03,500/- (Rupees Thirty lakh three thousand five hundred only) would be under the 'General Component' and Rs. 5,00,000/- (Rupees Five lakh Only) would be under the head (Capital Component) for a period of 3 years. The detailed breakup of the grant:

General: Rs. 30,03,500/-

Capital: Rs. 5,00,000/-

Non-Recurring Items [Capital Component/Equipment]:

S. No	Item	Budget (In lakhs)			
		Year-I	Year-II	Year-III	Total
1	Complete air plasma system for PDMS chip fabrication	5,00,000	-	-	5,00,000
Total		5,00,000	-	-	5,00,000

Recurring Items [General Component]:

S. No	Item	Budget (In Lakhs)			
		Year-I	Year-II	Year-III	Total
1	Salaries/wages 1 SRF @ Rs.35,000/-	4,20,000	4,20,000	4,20,000	12,60,000
2	Consumables	4,00,000	1,60,000	1,60,000	7,20,000
3	Travel	50,000	50,000	50,000	1,50,000
4	Contingencies	50,000	50,000	50,000	1,50,000
5	Other Cost	2,00,000	2,05,000	-	4,05,000
6	Institutional Overheads (10%)	1,62,000	88,500	68,000	3,18,500
TOTAL		12,82,000	9,73,500	7,48,000	30,03,500

Anta
4/7/19

2. The sanction of the President is also accorded to the release of **Rs.12,82,000/- (Rupees Twelve lakh eighty two thousand only)** to the **Principal, Sri Siva, Subramaniya Nadar College Of Engg, Kalavakkam, Chennai 603110** being the first instalment of grant under "General Component" for implementation of the above mentioned project..
3. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grant received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.
4. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
5. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.
6. The grant-in-aid being released is subject to the condition that
 - a) A transparent procurement procedure in line with Provisions of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.
 - b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to be ensuring submission of supporting documentary evidences with regard of the purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
7. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. All interests or other earnings against grants in aid released to any grantee institution should be mandatorily remitted to the consolidated fund of India immediately after finalization of the accounts. Such advances should not be allowed to be adjusted against future release.
8. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
9. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017
10. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publication /

Anita
4/7/19

Media release as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

11. In accordance of GFR-230 (17) {i}, the release of Grant-in-Aid is subject to condition the Grantee institute Name or organization etc. Agrees to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts of services under its control on the lines indicated by GoI.
12. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

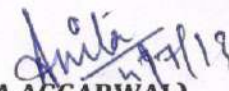
13. The expenditure involved is debitable to Demand No.84, Department of Science & Technology for the year 2019-20.

3425 : Other Scientific Research (Major Head)
60 : Others
60.200 : Assistance to Other Scientific Bodes (Minor Head)
70 : Innovation, Technology Development and Deployment
70.00.31 : Grants-in-aid General for the year 2019-20(Plan)
(Previous: TDP- -3425.60.200.26.01.31)

14. The amount of **Rs.12,82,000/- (Rupees Twelve lakh eighty two thousand only)** under general head will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the **Principal, Sri Siva, Subramaniya Nadar College Of Engg, Kalavakkam, Chennai 603110**, for general component through their bank account as account as per following details:

Name of the Account Holder	The Principal, SSN College of Engineering
Bank A/C No	158100050070022
Name of the Bank & branch	TAMILNAD MERCANTILE Bank LTD, THIRUVANMIYUR Branch Chennai-600 041.
RTGS/IFSC code	TMBL0000158
MIRC Code	600060010

15. As per Rule 234 of GFR 2017, the sanction has been entered at S. No. 117 in the register of grants maintained in the Division for the scheme Bio-medical Device Technology Development [BDTD] programme of TDT Division under the Innovation, Technology Development and Deployment.
16. The goods (consumables/equipment available in GeM portal are to be procured mandatorily online through Gem only)
17. This issues with the concurrence of IFD vide their Concurring **Dy.No 1583** Dated the **02.07.2019**
18. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings, against released Grant shall be remitted to consolidated fund of India (through Non-Tax Receipt Portal (NTRP) i.e., www.Bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with statement of Expenditure/Utilization Certificate for considering subsequent release of grant/closure of project accounts.


(ANITA AGGARWAL)
SCIENTIST -E

To

The Pay and Accounts Officer
Department of Science and Technology
New Delhi.

Copy for information and necessary order to:

1. Cash Section (2 copies) for preparing the bill & remitting the amount to the above grantee.
2. Account Section, DST, New Delhi
3. The Director of Audit (CW&M-II), AGCR Building, IP Estate, New Delhi - 110 002.
4. IFD, DST, New Delhi
5. Head (TDT)
6. Office Copy
7. Dr. Sreeja B S, Associate Professor, ECE, Sri Siva, Subramaniya Nadar College Of Engg, Kalavakkam, Chennai 603110
8. Principal, Sri Siva, Subramaniya Nadar College Of Engg, Kalavakkam, Chennai 603110
9. M/s HCL Corporations Pvt Ltd, Corporate Towers, HCL Technology Hub Plot No-3A, Sector-126. Noida-201 304, UP.

Anita
4/12/19
(ANITA AGGARWAL)
SCIENTIST -E

भारतीय अन्तरिक्ष अनुसंधान संगठन

अन्तरिक्ष विभाग

भारत सरकार

अन्तरिक्ष भवन

न्यू बी ई एल रोड, बेंगलूरु - 560 231, भारत

दूरभाष : +91 80 2341 5474

फैक्स :

Dr. M.A. Paul

Associate Director, RESPOND & AI

CBPO



Indian Space Research Organisation

Department of Space

Government of India

Antariksh Bhavan

New BEL Road, Bengaluru - 560 231, INDIA

Tel (Off) : +91 80 2341 5474

Fax :

☎: 080-23415269/22172269

FAX-080-23412471

email: respond@isro.gov.in

No. ISRO/RES/3/815/19-20

July 02, 2019

Dear Dr. Venkateswaran,

Subject: RESPOND Project - "Development of fusion algorithms for remotely sensed satellite images in cartographic applications"-reg.

This has reference to your submission of the above mentioned research proposal for funding under RESPOND Programme. The domain experts in Department of Space have reviewed the proposal. I wish to inform you that Chairman, ISRO / Secretary, DOS has approved the following:

1. Funding of the project under RESPOND Programme for a **period of Two Years** with a total outlay of **₹14.29 Lakhs (Rupees Fourteen Lakh and Twenty Nine Thousand only)** towards meeting the expenditure of the project (budget details enclosed).
2. Release of grant of **₹8.27 Lakhs (Rupees Eight Lakh and Twenty Seven Thousand only)** towards meeting the expenditure of the project during first year .

The approval is subject to fulfillment of the following:

- (a) You will have to submit Annual Progress Report (APR), at the end of the year, indicating the progress of the work accomplished during the first year (to enable renewal of the project for second year). However, on conclusion of the project, you will have to send a comprehensive report covering total project activities. The copies of reports should be sent to **Director, SAC, Ahmedabad (Attn: Dr.(Smt) Parul Patel, Respond Coordinator, SAC, Ahmedabad)** and two copies to the undersigned.
- (b) You will have to submit two copies of the Fund Utilization Certificate (FUC) and Audited Accounts Statement (AAS) on completion of the first year of the project (to enable renewal of the project for second year). On completion of the project, you have to send the final FUC and Audited Account Statement for the total expenditure incurred in the project.

The FUC and AAS should be submit to the Pay & Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru 560094 and Dr. (Smt) Parul Patel, Respond Coordinator, SAC, Ahmedabad with a copy to the undersigned.

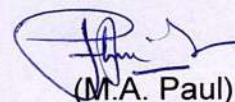
The Department of Space has already issued Financial sanction order for the approved grant (copy enclosed).

As per the revised fellowship norms, for the appointment of JRF, the person should have PG Degree in Basic Science OR Graduate/Post Graduate Degree in Professional Course selected through a process described through any one of the following: (a) Scholars who are selected through **National Eligibility Test** – CSIR-UGC NET including lectureship (Assistant Professorship) and **GATE** (b) The selection process through National level examinations conducted by Central Government Departments and their Agencies and institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc. You may kindly intimate us and send the details of JRFs after appointment.

You are requested to send the enclosed Grant-in-Aid bill and Electronic Transfer Mandate Form duly filled and signed in original to the Pay and Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru 560 094 with a copy to the undersigned for releasing the grants (to The Principal, Sri Sivsubramaniya Nadar (SSN) College of Engineering, Chennai, TN) at the earliest

With Best Regards,

Yours sincerely,



(M.A. Paul)

Dr. N. Venkateswaran
Professor
Department of ECE
Sri Sivasubramaniya Nadar (SSN) College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam : 603 110
Chennai
Tamil Nadu.

CC: Director, CBPO, ISRO HQ
Director, SAC, Ahmedabad
Principal, Sri Sivsubramaniya Nadar (SSN) College of Engineering,
Chennai, TN
Shri Ujjwal Kumar Gupta, (EPSA-VRG-CGDD), SAC, Ahmedabad
Shri Ankur Garg (SIPG-ODPD), SAC, Ahmedabad
Dr. Sanid C (EPSA-AMHTDG-MTDD), SAC, Ahmedabad
Dr. (Smt) Parul Patel, Respond Coordinator, SAC, Ahmedabad

Sl. No	Item of Expenditure	I st Yr	II nd Yr	Total
1	Manpower:1 JRF @ (₹31000 pm+HRA 8%) pm for I st and 2 nd Yr	4.02	4.02	8.04
2	Equipment			
	a) High end computer workstation	1.00	0.00	1.00
	b) Satellite PAN and MS images	1.00	0.00	1.00
3	Consumables and Supplies	0.50	0.50	1.00
4	Travel	0.50	0.50	1.00
	Sub Total	7.02	5.02	12.04
5	Overheads @20%	1.25	1.00	2.25
	Total	8.27	6.02	14.29

No.DS-2B-13012(2)/17/2019-Sec.II
भारत सरकार/GOVERNMENT OF INDIA
अंतरिक्ष विभाग/DEPARTMENT OF SPACE

Antariksh Bhavan,
New BEL Road,
Bengaluru - 560 094.

June 28, 2019

Principal,
Sri Sivasubramaniya Nadar (SSN) College of Engineering,
Rajiv Gandhi Salai (OMR),
Kalavakkam - 603 110,
Chennai,
Tamil Nadu.

Sir,

Sub: Grant-in-aid - RESPOND- Release of grant for the new project entitled
**"Development of fusion algorithms for remotely sensed satellite images in
cartographic applications"** - reg.

I am directed to convey the sanction of the President to a grant of ₹8,27,000/- (Rupees Eight lakh twenty seven thousand only) to meet the expenditure towards the new project entitled **"Development of fusion algorithms for remotely sensed satellite images in cartographic applications"** (total project cost is ₹14.29 lakh for a period of two years) by Sri Sivasubramaniya Nadar (SSN) College of Engineering during first year of the project.

2. The amount of ₹8,27,000/- (Rupees Eight lakh twenty seven thousand only) will be paid to you by the Pay & Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru - 560 094 on receipt of the bill.

3. The grant-in-aid sanctioned shall be subject to the terms and conditions mentioned in the Annexure enclosed.

4. A separate account for the grant-in-aid sanctioned will have to be maintained which are subject to the scrutiny by the Indian Audit and Accounts Department who will also have the right of access to the Book of Accounts.

5. Accounts of expenses incurred out of grant should be prepared, maintained and authenticated by approved auditors. The final accounts statement in duplicate duly audited should be sent to the Pay & Accounts Officer, Department of Space, Bengaluru-560 094 at the end of each financial year of support

....2/-

6. The expenditure involved is debitable to the Head "3402.00.103.09.00.31- Space Research- Space Sciences-Respond- GIA-General" - under 'Grant No.91 - Department of Space' for the financial year 2019-2020.

Yours faithfully,

(पूर्णिमा मनोज/Poornima Manoj)
(वरिष्ठ लेखा अधिकारी/Sr.Accounts Officer)

Copy for information and necessary action to:

1. The Director, CBPO, ISRO Hq., Bengaluru
2. Associate Director, RESPOND & AI, ISRO Hq., Bengaluru
(Ref No.ISRO/RES/3/815/19-20 dated 30.05.2019)
3. The Director General of Audit, Scientific Departments, DGACR Building, IP Estate, New Delhi - 110 001.
4. The Director, O/o the Director General of Audit, Scientific Departments, Antariksh Bhavan, New BEL Road, Bengaluru - 560 094
5. Chief Controller of Accounts, DOS
6. Senior Accounts Officer, ISRO Hq., Bengaluru
7. The Pay & Accounts Officer, Department of Space, Bengaluru - With a request to make the payment of ₹8,27,000/- (Rupees Eight lakh twenty seven thousand only) in favour of "The Principal, Sri Sivasubramaniya Nadar (SSN) College of Engineering, Chennai" on receipt of the Bill.
8. The Senior Head (Internal Audit), DOS, Bengaluru
9. Dr. N Venkateswaran, Professor, Department of ECE, Sri Sivasubramaniya Nadar (SSN) College of Engineering, Old Mahabalipuram Road, Chennai - 603 110, Tamil Nadu.

(पूर्णिमा मनोज/Poornima Manoj)
(वरिष्ठ लेखा अधिकारी/Sr.Accounts Officer)

FILE NO. TAR/2018/000052
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: 30-Jan-2020

ORDER

Subject: Research project entitled "**Development of anti-spoofing method for Automatic Speaker Verification System**" under the guidance of Dr. Bharathi B, Computer Science and Engineering, SSN College of Engineering, Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam, Kanchipuram, Tamil nadu-603110, under the mentorship of **Dr. Hema A Murthy (Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036)** - Release of 2nd grant.

1. This is in continuation of SERB's sanction order No. "TAR/2018/000052" dated "25 February, 2019" of Science and Engineering Research Board (SERB).
2. Sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 2,74,332/-** (Rupees Two Lakh Seventy Four Thousand Three Hundred and Thirty Two only) to **SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam** being the 2nd grant for the financial year 2019-2020 for implementation of the above said project.
3. Sanction of the competent authority is also accorded to the carry forward of unspent balance of **Rs. 310000/-** (Rupees Three Lakh Ten Thousand only) to Indian Institute of Technology Chennai, I.I.T. Post Office Chennai and **Rs. 42939/-** (Rupees Forty Two Thousand Nine Hundred and Thirty Nine only) (Recurring Rs. 310000 and Non-Recurring Rs. 0) to SSN College of Engineering, Sri Sivasubramaniya Nadar College of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam from FY 2018-2019 to FY 2019-2020 for the same purpose for which it was sanctioned.
4. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in).
5. It is certified that provision of GFR 212 relating to Utilization Certificates (Ucs) for the funds released under the grant have been satisfied and the UC/s is/are enclosed herewith.
6. The expenditure involved is debitable to **Fund for Science & Engineering Research (FSER)** **This release is being made under Teachers Associateship For Research Excellence (TARE). (Tare Expert Committee)**.
7. The Sanction has been issued to with the approval of the competent authority vide Diary No. SERB/F/9364/2019-2020 dated 30 January, 2020
8. The release amount of **Rs. 2,74,332/-** (Rupees Two Lakh Seventy Four Thousand Three Hundred and Thirty Two 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:

SSN College of Engineering, Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam, Kanchipuram, Tamil nadu-603110 (Parent Institute):

PFMS Unique Code	SSNCE
Account Name	THE PRINCIPAL, SRI SIVA SUBRAMANIA NADAR COLLEGE OF ENGINEERING
Account Number	158100710400509
Bank Name & Branch	TAMILNAD MERCANTILE BANK LTD., NO.3, THRIUVALLUVAR SALAI, THRIUVANMIYUR, CHENNAI-600041
IFSC/RTGS Code	TMBL0000158
Email address of PI	bharathib@ssn.edu.in
Email id of A/C Holder	principal@ssn.edu.in
Email address of concerned officer	ms_tare@serbonline.in

The release amount of **Rs. 3,35,000/-** (Rupees Three Lakh Thirty Five Thousand 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:

Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036 (Host Institute):

PFMS Unique Code	IITM
Account Name	REGISTRAR, INDIAN INSTITUTE OF TECHNOLOGY-MADRAS
Account Number	2722101016150

Bank Name & Branch	CANARA BANK IIT MADRAS BRANCH, IIT CAMPUS, CHENNAI - 600036
IFSC/RTGS Code	CNRB0002722
Email address of PI	bharathib@ssn.edu.in
Email id of A/C Holder	deanicsr@iitm.ac.in
Email address of concerned officer	ms_tare@serbonline.in

9. 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.

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

11. The institute will furnish to the SERB, Utilization certificate(separate for Recurring & Non-Recurring) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

12. After completion of the project unspent balance if any should be returned as Demand Draft drawn in favour of "Fund for Science and Engineering Research" payable at New Delhi.

13. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

14. 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, a statutory body of Department of Science & Technology (DST), Government of India.


(Dr. T Thangaradjou)
Scientist E
ms_tare@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.	Dr. Bharathi B Computer Science and Engineering SSN College of Engineering , Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam , Kanchipuram, Tamil nadu-603110 Email: bharathib@ssn.edu.in Mobile: 919840014807
5.	PRINCIPAL, SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam


(Dr. T Thangaradjou)
Scientist E
ms_tare@serbonline.in

FILE NO. TAR/2018/000052
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: 25-Feb-2019

ORDER

Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to **Dr. Bharathi B, SSN College Of Engineering , Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (omr), Kalavakkam , Kanchipuram, Tamil Nadu-603110** under the mentorship of **Dr. Hema A Murthy, at Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036** Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned grant at a total cost of **Rs. 18,30,000/- (Rs. Eighteen Lakh Thirty Thousand Only)** for a duration of 36 months.

The date of start of the project will be 19 November, 2018. The items of expenditure for which the total allocation of **Rs. 18,30,000/-** has been approved are given below:

The following budget is proposed for

SSN College Of Engineering , Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (omr), Kalavakkam , Kanchipuram, Tamil Nadu-603110 (Parent)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 0 (@0/- per month (consolidated))
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036 (Host)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 60,000 (on completion of 90 days mandatory attendance in the host institute every year)
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

2. Sanction of the SERB is also accorded to the payment of **Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only)** to **SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam , Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only)** to **Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036** being the first installment of the grant for the year 2018-2019 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 Teachers Associateship For Research Excellence (TARE). (Electrical Electronics & Computer Engineering)

4. The Sanction has been issued with the approval of the competent authority vide Diary No. **SERB/F/11160/2018-2019** dated 13 February, 2019

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (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. 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.

8. The release amount of **Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand 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:

Account Name	THE PRINCIPAL, SSN COLLEGE OF ENGINEERING
Account Number	158100050070022
Bank Name & Branch	TAMILNAD MERCANTILE BANK LTD., NO.3, THRIUVALLUVAR SALAI, THRIUVANMIYUR, CHENNAI-600041
IFSC/RTGS Code	TMBL0000158
Email address of PI	bharathib@ssn.edu.in
Email id of A/C Holder	info@ssn.edu.in
Email address of concerned officer	ms_tare@serbonline.in

The release amount of Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand 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:

Account Name	REGISTRAR, IIT-MADRAS
Account Number	2722101001741
Bank Name & Branch	CANARA BANK IIT MADRAS BRANCH, IIT CAMPUS, CHENNAI - 600036
IFSC/RTGS Code	CNRB0002722
Email address of PI	bharathib@ssn.edu.in
Email id of A/C Holder	deanicsr@iitm.ac.in
Email address of concerned officer	ms_tare@serbonline.in

9. Both the institutes will furnish Utilization certificate (UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. 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.

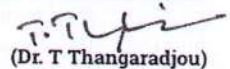
11. The File no. **TAR/2018/000052** may also be mentioned in all research communications arising from the above project with due acknowledgement of **SERB**.

12. As this is the first grant for the fellowship, no previous U/C is required.

13. 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.

14. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

15. 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, a statutory body of Department of Science & Technology (DST), Government of India.


(Dr. T Thangaradjou)
Scientist E
ms_tare@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.	(i) Dr. Bharathi B Computer Science and Engineering SSN College of Engineering, Sri sivasubramaniya nadar college of engineering rajiv gandhi salai (omr), kalavakkam, Kanchipuram, Tamil nadu-603110 Email: bharathib@ssn.edu.in Mobile: 919840014807 (ii) Dr. Hema A Murthy Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	(i) PRINCIPAL, SSN College Of Engineering, Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (OMR), Kalavakkam (ii) REGISTRAR Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036 (Receipt of Grant may be intimated by name to the undersigned)


(Dr. T Thangaradjou)
Scientist E
ms_tare@serbonline.in



Bharathi B. <bharathib@ssn.edu.in>

SERB-Notification

3 messages

SERB_Administrator@serbonline.in <SERB_Administrator@serbonline.in>

Sat, Nov 3, 2018 at
4:14 PM

To: "info@serbonline.in"@imsva02.cdacnoida.in



Science and Engineering Research Board
(Statutory Body Established Through an Act of Parliament : SERB Act 2008)
Department of Science and Technology, Government of India

SCIENCE & ENGINEERING RESEARCH BOARD (SERB)

(Statutory Body Established Through an Act of Parliament : SERB Act 2008)

5 & 5A, Lower Ground Floor
Vasant Square Mall
Sector-B, Pocket-5
Vasant Kunj
New Delhi - 110 070

File Number: TAR/2018/000052

Dated: 03-Nov-2018

Subject: Project titled "Development of anti-spoofing method for Automatic Speaker Verification System"

Dear Dr. Bharathi B,

We are happy to inform you that your application cited above has been approved by the Science and Engineering Research Board for funding under **Teachers Associateship for Research Excellence (TARE)**. The following are the approved items for a period of three years.

Research Grant – As per SERB-TARE norms

Fellowship – As per SERB-TARE norms

Overhead Charges – As per SERB-TARE norms

1. This approval letter is valid subject to the fulfilment of all the eligibility criteria for the TARE and submission of required documents.
2. You are requested to submit the joining report in the host institute and submit relevant documents within one month from the date of receipt of this letter. Projects requires ethical

/ biosafety / stem cell / wildlife clearances etc.candidate will be allowed to join the host institute only after acquiring such clearances.

3. 3. The grant will be effective from the date of joining in the host institution.
4. 4. Follow the norms of host and parent institutions while implementing the project. Please visit our website www.serbonline.in for the terms & conditions of the grant.

Kindly quote the reference number in all future correspondence. The reference no. **TAR/2018 /000052** should be mentioned in all research outputs(publications/patent etc.) arising from the TARE grant.

Kindly follow the below steps only then you will be able to acknowledge the approval letter:

1. 1. Go to www.serbonline.in through your credentials
2. 2. Go to Menu --> Proposal submission --> View submitted proposals

A certificate stating that any visit abroad for a period more than eight weeks would be undertaken after due permission from SERB, may also be submitted.

Kindly upload RTGS details of the parent as well as host institute to facilitate transfer of the fund as per the template

Yours sincerely,

(Dr. T Thangaradjou)

Scientist E

Dr. Bharathi B

Computer Science And Engineering

SSN College Of Engineering , Sri Sivasubramaniya Nadar College Of Engineering Rajiv Gandhi Salai (omr), Kalavakkam , Kanchipuram, Tamil Nadu-603110

***** LEGAL DISCLAIMER *****

Please do not reply to this mail !!

[SERB is now on Social-Media. Kindly follow us on Twitter: @serbonline <https://www.twitter.com/serbonline>]

This is a system generated information and does not require any signature. This E-Mail may contain Confidential and/or legally privileged Information and is meant for the intended recipient(s) only. If you have received this e-mail in error and are not the intended recipient/s, kindly notify us at info@serbonline.in and then delete this e-mail immediately from your system. Any unauthorized review, use, disclosure, dissemination, forwarding, printing or copying of this email or any action taken in reliance on this e-mail is strictly prohibited and may be unlawful. Internet communications cannot be guaranteed to be timely, secure, error or virus-free. The sender does not accept any liability for any errors, omissions, viruses or computer problems experienced by any recipient as a result of this e-mail.

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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.tanscst.nic.in

Telefax : 044 - 2230 1552

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

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

Member Secretary

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

9290

04.11.2019

To
Dr.S.Chitra
Associate Professor
Dept. of Information Technology
SSN College of Engineering
Kalavakkam, Chennai – 603 110

Sir/Madam,

Sub: TNSCST – S&T Project on “Assistive Technology for Parkinson and Alzheimer Disease (PAD) affected people” –Approval intimation – Reg.

Ref: Your proposal dated 18.02.2019

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.4,10,000/- for **Two** years. First year approved grant will be Rs.2,05,000 /-(Rupees Two lakh and five thousand 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
SSN College of Engineering
Kalavakkam, Chennai – 603 110

BUDGET DETAILS

4. Title of the project:

Assistive technology for parkinson and alzheimer disease (PAD) affected people

Name and address of the principal investigator

Dr S Chithra
Associate Professor
Dept. of IT
SSN College of Engineering
Chennai-603110

Amount & Duration: Rs.4, 10,000/- for TWO years

Approved Budget

Sl.no	Description of the item	Amount (Rs.)		
		First year	Second year	Total
1	Permanent Equipment	1,20,000.00	1,20,000.00	2,40,000.00
2	Equipment	50,000.00	50,000.00	1,00,000.00
3	Consumables	10,000.00	10,000.00	20,000.00
4	Travel	10,000.00	10,000.00	20,000.00
5	Overhead charges	15000.00	15000.00	30000.00
Total		2,05,000.00	2,05,000.00	4,10,000.00


MEMBER SECRETARY



The Institution of Engineers (India)

AN ISO 9001 : 2015 CERTIFIED ORGANISATION
(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)
8 GOKHALE ROAD, KOLKATA - 700 020



*"99 Years of Relentless Journey towards
Engineering Advancement for Nation-building"*

Ref: R.6/2/DR/2019 20/DR2020010

Date: 23 September 2019

The Principal
Sri Sivasubramaniya Nadar College of Engineering
Old Mahabalipuram Road, Kalavakkam
Chennai 603110

Dear Sir/Madam,

Sub: Intimation of Approval for R&D Project entitled: "Development of Sustainable Magnetic Carbon Based Nanocomposite Films from Agro Waste and Evaluate Its Application in Removal of Antibiotics from Water"

This has reference to your subject project proposal submitted to The Institution of Engineers (India) for funding under IEI R&D Grant-in-Aid Scheme.

We are pleased to inform that the same has been approved by the competent authority as per the details mentioned below:

Project ID:	DR2020010	Category:	PhD	Financial Year:	2019-20
Guide(s):	Dr P Senthil Kumar	Applicant(s):	G Prasannamedha		
College / Institute / University:	Sri Sivasubramaniya Nadar College of Engineering	Total Grant Sanctioned:	₹70,000/-	Number of Instalment(s):	2

Kindly quote your project ID all your future correspondence.

Please note that the Terms & Conditions of the Grant (Copy enclosed) should be strictly followed. On successful completion of the project, the following documents are to be furnished: (1) hard and soft copy of the Project Report, (2) hard/soft copy of the Project Completion Report, (3) hardcopies of the Utilization Certificates in duplicate, (4) soft copy of the filled-in R&D Compendium pro-forma (in .doc/.docx format) and (5) an Audio/Visual Demonstration of the Prototype/Model/Process in CD or Google Drive File Link. The submission will be treated as successful and complete only on receipt of the above documents.

Kindly acknowledge receipt through email id research@ieindia.org.

Thanking you.

Yours faithfully,

(Dr N Sengupta)
Director (Technical)
For Secretary & Director General

Encl: as stated.

cc: Guide(s) - ✓ Dr P Senthil Kumar



Er. Ravinder Gaur,
Scientist & Member Secretary
(State Science & Technology Programme)
TDT Divn., Room No.13, Hall-A,
Tel: 011-2659 0373, Email: rgaur@nic.in

भारत सरकार

विज्ञान और प्रौद्योगिकी मंत्रालय

विज्ञान और प्रौद्योगिकी विभाग

टेक्नोलॉजी भवन, नया महरौली मार्ग

नई दिल्ली-110 016

GOVERNMENT OF INDIA

MINISTRY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF SCIENCE AND TECHNOLOGY

TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD

NEW DELHI-110 016

D.O. No.

F. No. DST/SSTP/2018/289

Dated 05.03.2019

Subject: Financial support for the project entitled "Development of GPS based comprehensive mobile App for Water Quality Assessment & Monitoring for promoting water security, farm security, urban development and civic improvement" by Dr. N. P. Rajesh, Head, Center for Radiation Environmental Science and Technology, SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Thirupporur - 603110, Kancheepuram District, Tamilnadu- Release of the first instalment regarding

Dear Dr. Rajesh,

I am happy to inform your good self that above mentioned project proposal has been sanctioned by the DST for the implementation which is based on the Development of GPS based comprehensive mobile App for Water Quality Assessment & Monitoring for promoting water security, farm security, urban development and civic improvement. Please note that whenever any important activity organized by yourself may kindly to informed this Department so that persons may be nominated for the participation. We have also enclosed the terms and condition of the grants, GFR-2017 (attached along with this letter) please follow them while implementing the project. Please also inform the DST about following as they become applicable:

1. Date of receipt of funds
2. Project commencement date
3. Recruitment of manpower as per DST norms
4. Actual work plan for implementing the project indicating various milestones
5. Quarterly progress report of the project as per the format enclosed
6. Statement of Expenditure (SE) and Utilization Certificate (UC) as per the format attached for General and Capital Grant separately.
7. As per the new instructions of the Ministry, the PI is requested to deposit the whole project grant in an interest earning account and be remitted to the Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e., www.Bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/Utilization Certificate for considering subsequent release of grant/closure of project accounts while sending the SE/UC of each financial year for any further release from this Department.
8. The PI is requested to upload the UC in the PFMS website (<https://pfms.nic.in/Users/LoginDetails/Login.aspx>) and submit the UC number of General and Capital Head.
9. A formal acceptance letter from the competent authority of your institute for agreeing to the terms and conditions of the sanction order (within 15 days of receipt of this letter)

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Cont..2

The sanction order contains various annexure which gives the various formats required to be submitted by the PI while implementing the project. We will be happy to provide further any information if needed. You are kindly requested to submit the various documents to this Department through to the undersigned for any further grants from this Department.

Looking forward your soon reply.

Thanking you with kind regards,

Your Sincerely,



(Ravinder Gaur)

Dr. N. P. Rajesh
Head
Center for Radiation Environmental Science and Technology
SSN College of Engineering,
Rajiv Gandhi Salai (OMR), Kalavakkam,
Thirupporur - 603110, Kancheepuram
District, Tamilnadu

F. No.: DST/SSTP/2018/289 (G)
Government of India
Ministry of Science and Technology
Department of Science and Technology

Technology Bhavan
New Mehrauli Road
New Delhi- 110 016
Dated the 26.02.2019

ORDER

Subject: Financial support for the Project entitled "Development of GPS based comprehensive mobile App for Water Quality Assessment & Monitoring for promoting water security, farm security, urban development and civic improvement" by Dr. N. P. Rajesh, Head, Center for Radiation Environmental Science and Technology, SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Thiruppurur - 603110, Kancheepuram District, Tamilnadu- Release of the first instalment regarding

Sanction of the President is hereby accorded for the approval of the above mentioned project at a total cost of **Rs. 47,57,912/-** (Rupees Forty-Seven Lakh Fifty-Seven Thousand Nine Hundred Twelve Only) for a duration of 24 months to the **Principal, SSN College of Engineering, Old Mahabalipuram Road (OMR), Rajiv Gandhi Salai, Kalavakkam, Chennai, PIN: 603110**, as per the budget mentioned below. The detailed breakup of the DST contribution is given below with the following bifurcations:

- General Component: **Rs. 15,60,000/-** (Rupees Fifteen Lakh Sixty Thousand Only)
- Capital Component: **Rs. 31,97,912/-** (Rupees Thirty-One Lakh Ninety-Seven Thousand Nine Hundred Twelve Only)

Budget Outlay

Sl. No.	Items	1st Year	2nd year	Total
	Recurring expenses			
1	Salaries*	3,60,000	3,60,000	7,20,000
2	Consumables	3,00,000	2,00,000	5,00,000
3	Contingencies	50,000	50,000	1,00,000
4	Travel	70,000	70,000	1,40,000
5	Overhead expenses	50,000	50,000	1,00,000
	Subtotal (1)	8,30,000	7,30,000	15,60,000
	Non-Recurring expenses			
6	Permanent equipment	31,97,912	0	31,97,912
	Grand total	40,27,912	7,30,000	47,57,912

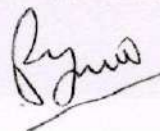
* Salary:

a) Two Project Assistants @15,000/- PM fixed for 24 months

2. The sanction of the president is also conveyed for the Initial release of **Rs. 8,30,000/-** (Rupees Eight Lakh Thirty Thousand Only) under 'General Component'.

3. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date of progress report at the end of each financial year duly reflecting the interest earned/accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

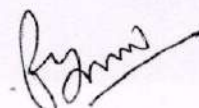
4. The grantee organization will have to enter and upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

 Contd...2

5. If the grant has been released under the capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.
6. The grant -in-aid being released is subject to the condition that:
- (a) A transparent procurement procedure in line with the Provision of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant
- (b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
7. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e., www.Bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/Utilization Certificate for considering subsequent release of grant/closure of project accounts.
8. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
9. In case the scheme provides for payment of honorarium/remuneration/fellowship/scholarship to the Principal Investigator, a para may be suitably be incorporated in the DSO to the effect that "PI is not drawing any emoluments/salary/fellowship from any other project either supported by DST or by any other funding agency".
10. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236 (1) of General Financial Rules 2017.
11. Due acknowledgment of technical support/financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications/media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
12. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
13. The expenditure involved is debitable to:-
Demand No. **84**, Department of Science & Technology

3425	Other Scientific Research (Major Head)
60	Other (sub-major Head)
60.200	Assistance to other Scientific Bodies (Minor Head)
68	Science & Technology Institutional and Human Capacity Building
68.00.31	Grant -in-aid general for the year 2018-19(Plan Expenditure)
Previous budget head	3425.60.200.27.00.31 (State Science & Technology Programme Grant -in-aid general)

14. The amount of **Rs. 8,30,000/-** (Rupees Eight Lakh Thirty Thousand Only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the **Principal, SSN College of Engineering, Old Mahabalipuram Road (OMR), Rajiv Gandhi Salai, Kalavakkam, Chennai, PIN: 603110, Tamilnadu**. The bank details for electronic transfer of funds through RTGS are given below:



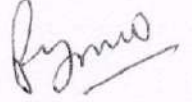
Contd...3

Name of the agency	Principal, SSN College of Engineering
Account no.	158100050070022
Bank name	Tamilnadu Mercantile Bank Ltd.
IFSC code	TMBL0000158

15. As per the Rule 234 of GFR 2017, this sanction has been entered at S. No. 68 in the register of grants maintained in the Division for the scheme State S&T programme.

16. This issues with the concurrence of IFD vide their Concurrence **Diary No. 5246 dated 13.02.2019**

17. **DARPAN portal ID of the host institute: TN/2017/0118071**



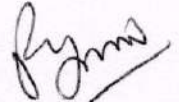
(Er. Ravinder Gaur)
Scientist - D
011-26590373

To

The Pay and Accounts Officer
Department of Science and Technology
New Delhi- 110 016

Copy for information and necessary action to:

1. Cash Section (3 copies) for preparing the bill and remitting the amount to the above grantee.
2. Accounts Section, DST, New Delhi.
3. IFD, Department of Science & Technology, New Delhi.
4. Director of Audit (CW& M-II), AGCR Building, IP Estate, New Delhi.
5. The Principal, SSN College of Engineering, Old Mahabalipuram Road (OMR), Rajiv Gandhi Salai, Kalavakkam, Chennai, PIN: 603110, Tamilnadu.
6. Dr. N. P. Rajesh, Head, Center for Radiation Environmental Science and Technology, SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Thirupporur - 603110, Kancheepuram District, Tamilnadu (with a request to intimate the undersigned on receipt of the funds in the bank account)
7. Office Copy
8. Sanction Folder
9. Head (TDT)



(Er. Ravinder Gaur)
Scientist - D
011-26590373

F. No.: DST/SSTP/2018/289 (C)
Government of India
Ministry of Science and Technology
Department of Science and Technology

Technology Bhavan
New Mehrauli Road
New Delhi- 110 016
Dated the 26.02.2019

ORDER

Subject: Financial support for the Project entitled "Development of GPS based comprehensive mobile App for Water Quality Assessment & Monitoring for promoting water security, farm security, urban development and civic improvement" by Dr. N. P. Rajesh, Head, Center for Radiation Environmental Science and Technology, SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Thirupporur - 603110, Kancheepuram District, Tamilnadu- Release of the first instalment regarding

With reference to sanction order no. **DST/SSTP/2018/289 (G)** dated the 26.02.2019 Sanction of the president is hereby accorded for the payment of **Rs. 31,97,912/-** (Rupees Thirty-One Lakh Ninety-Seven Thousand Nine Hundred Twelve Only) as first instalment of the above project towards Grant for creation of capital assets to **Principal, Principal, SSN College of Engineering, Old Mahabalipuram Road (OMR), Rajiv Gandhi Salai, Kalavakkam, Chennai, PIN: 603110, Tamilnadu**, as per the list of equipment mentioned below for the implementation of the project during F.Y **2018-19**.

Equipment:

Sl. No.	Name of the Permanent equipment	Amount in Rs.
1	Turbidity meter	44,574
2	Thermo Dionex Aquion Ion Chromatography System*	24,70,000
3	Flame Photometer	2,09,450
4	Laminar Air flow -Vertical	1,53,400
5	Autoclave	64,900
6	BOD incubator	76,700
7	Cooling Incubator	1,54,875
8	Colony Counter	12,803
9	Vortex Mixture	11,210
	Total	31,97,912

* Conversion of US\$ to INR is based on XE.Com on 10-01-2019

2. The sanction of the president is also conveyed for the Initial release of **Rs. 31,97,912/-** (Rupees Thirty-One Lakh Ninety-Seven Thousand Nine Hundred Twelve Only) under 'Capital Component'.

3. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date of progress report at the end of each financial year duly reflecting the interest earned/accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

4. The grantee organization will have to enter and upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

5. If the grant has been released under the capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.

6. The grant -in-aid being released is subject to the condition that:

- (a) A transparent procurement procedure in line with the Provision of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant
- (b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

7. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e., www.Bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/Utilization Certificate for considering subsequent release of grant/closure of project accounts.

8. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

9. In case the scheme provides for payment of honorarium/remuneration/fellowship/scholarship to the Principal Investigator, a para may be suitably be incorporated in the DSO to the effect that "PI is not drawing any emoluments/salary/fellowship from any other project either supported by DST or by any other funding agency".

10. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236 (1) of General Financial Rules 2017.

11. Due acknowledgment of technical support/financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications/media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

12. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

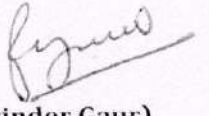
13. The expenditure involved is debitable to:-Demand No. **84**, Department of Science & Technology

3425	Other Scientific Research (Major Head)
60	Other (sub-major Head)
60.200	Assistance to other Scientific Bodies (Minor Head)
68	Science & Technology Institutional and Human Capacity Building
68.00.35	Grant for creation of capital assets for the year 2018-19 (Plan Expenditure)
Previous budget head	3425.60.200.27.00.35 (State Science & Technology Programme Grant -in-aid for creation of capital assets)

14. The amount of **Rs. 31,97,912/-** (Rupees Thirty-One Lakh Ninety-Seven Thousand Nine Hundred Twelve Only) for non-recurring grant will be drawn by the Drawing and Disbursing Officer, Department of Science and Technology and disbursed to the **Principal, SSN College of Engineering, Old Mahabalipuram Road (OMR), Rajiv Gandhi Salai, Kalavakkam, Chennai, PIN: 603110, Tamilnadu as per the budget mentioned above.** The bank details for electronic transfer of funds through RTGS are given below:

Name of the agency	Principal, SSN College of Engineering
Account no.	158100050070022
Bank name	Tamilnadu Mercantile Bank Ltd.
IFSC code	TMBL0000158

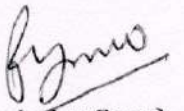
15. As per the Rule 234 of GFR 2017, this sanction has been entered at S. No 68 in the register of grants maintained in the Division for the scheme State S&T programme.
16. This issues with the concurrence of IFD vide their Concurrence Dy. No. 5247 dated the 13.02.2019
17. The DARPAN portal ID of the host institute: TN/2017/0118071


(Er. Ravinder Gaur)
Scientist - D
011-26590373

To
The Pay and Accounts Officer
Department of Science and Technology
New Delhi- 110 016

Copy for information and necessary action to:

1. Cash Section (3 copies) for preparing the bill and remitting the amount to the above grantee.
2. Accounts Section, DST, New Delhi.
3. IFD, Department of Science & Technology, New Delhi.
4. Director of Audit (CW& M-II), AGCR Building, IP Estate, New Delhi.
5. The Principal, SSN College of Engineering, Old Mahabalipuram Road (OMR), Rajiv Gandhi Salai, Kalavakkam, Chennai, PIN: 603110, Tamilnadu.
6. Dr. N. P. Rajesh, Head, Center for Radiation Environmental Science and Technology, SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam, Thirupporur - 603110, Kancheepuram District, Tamilnadu (with a request to intimate the undersigned on receipt of the funds in the bank account)
7. Office Copy
8. Sanction Folder
9. Head (TDT)


(Er. Ravinder Gaur)
Scientist - D
011-26590373



Public Financial Management System-PFMS

O/o Controller General of Accounts, Ministry of Finance

(formerly CPSMS)

Welcome: **Ravinder Gaur**
User Type: **PD**
Financial Year: **2018-2019**



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Scheme Allocation

Register/ Track Issue

Utilisation Certificate

OLD UC

Payee Details

Controller: 037-SCIENCE AND TECHNOLOGY

Sanction Status: **Approved**

Sanction Number: DST/SSTP/2018/289(G)

Sanction Date: 26/02/2019

Sanction Type: Transfer (DDO Bill)

Sanction Amount: 830000

IFD Number: 5246

IFD Date: 13/02/2019

Scheme: 1817-Science and Technology Institutional and Human Capacity Building

PAO: 058296-PAO(DST), New Delhi

DDO: 258297-DEPARTMENT OF SCIENCE & TECHNOLOGY (INCLUDING,NCST)

Remarks: Release of the first installment regarding

Account Details:

Grant	Department (For UT Grants Only)	Function Head	Object Head	Category	Amount	External PAO	Available Budget
084 - Department of Science and Technology		3425602006800 - SCIENCE & TECHNOLOGY INSTITUTIONAL AND HUMAN CAPACITY BUILDING	31 - GRANTS-IN-AID GENERAL	5 - VOTED	830000		537339544

Agency	Bank Account No	Amount	Instrument Type
SSN COLLEGE OF ENGINEERING	158100050070022 - SSN College of En ▼	830,000.00	☒ RTGS

ePayment Details

Accredited Bank : * UNION BANK OF INDIA ▼ Amount : 830000

Not Payable Before : * ☐ Required

Party Name	IFSC Code	Party Account No	Amount	Payee Remarks
SSN COLLEGE O	TMBL0000158	158100050070022	830000	first installment

Note: If the IFSC Code is not automatically shown it means bank A/C is not validated.If payment process is urgent please key in the IFSC Code and process payment.Please ensure IFSC Code is correct.

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Public Financial Management System-PFMS

(formerly CPSMS)

O/o Controller General of Accounts, Ministry of Finance

Welcome: **Ravinder Gaur**
User Type: **PD**
Financial Year: **2018-2019**



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Utilisation Certificate

OLD UC

Payee Details

Controller: 037-SCIENCE AND TECHNOLOGY

Sanction Status: **Approved**

Sanction Number: DST/SSTP/2018/289(C)

Sanction Date: 26/02/2019

Sanction Type: Transfer (DDO Bill)

Sanction Amount: 3197912

IFD Number: 5247

IFD Date: 13/02/2019

Scheme: 1817-Science and Technology Institutional and Human Capacity Building

PAO: 058296-PAO(DST), New Delhi

DDO: 258297-DEPARTMENT OF SCIENCE & TECHNOLOGY (INCLUDING,NCST)

Remarks: Release of the first installment regarding (Capital)

Account Details:

Grant	Department (For UT Grants Only)	Function Head	Object Head	Category	Amount	External PAO	Available Budget
084 - Department of Science and Technology		3425602006800 - SCIENCE & TECHNOLOGY INSTITUTIONAL AND HUMAN CAPACITY BUILDING	35 - GRANTS FOR CREATION OF CAPITAL ASSETS	5 - VOTED	3197912		1540261261

Agency	Bank Account No	Amount	Instrument Type
SSN COLLEGE OF ENGINEERING	158100050070022 - SSN College of En ▼	3,197,912.00	☒ RTGS

ePayment Details

Accredited Bank : * Amount : Not Payable Before : * ☐ Required

Party Name	IFSC Code	Party Account No	Amount	Payee Remarks
SSN COLLEGE O	TMBL0000158	158100050070022	3197912	first installment reg

Note: If the IFSC Code is not automatically shown it means bank A/C is not validated.If payment process is urgent please key in the IFSC Code and process payment.Please ensure IFSC Code is correct.

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