



KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act, 1956)

Pollachi Main Road, Eachanari Post, Coimbatore - 641 021, Tamil Nadu, India.

Phone : 0422 - 2980011 - 14 | Fax : 0422 - 2980022 | Email : info@kahedu.edu.in

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(Deemed to be University)

(Established Under Section 3 of UGC Act, 1956)

Prof.Dr.M. Palaniswamy, M.Sc., M.Phil., PhD.

Registrar

Ref.KAHE/R/NAAC/DVV/2021/

03.05.2021

Certificate of Authentication

This is to certify that the following documents related to the Metric ID. 6.4.2 (28 pages) are duly verified and authenticated by the Registrar, Karpagam Academy of Higher Education for DVV purpose.



[Handwritten Signature]
03/05/2021

Registrar

REGISTRAR

Karpagam Academy of Higher Education
(Deemed to be University Under Section 3 of UGC Act 1956)
Pollachi Main Road, Eachanari Post,
Coimbatore - 641 021.

No.SR/FST/LS-I/2018/187(C)
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF SCIENCE & TECHNOLOGY
R & D (Infrastructure) DIVISION

Technology Bhawan,
New Mehrauli Road,
New Delhi -110016.

1st October, 2019

ORDER

Subject: Financial assistance (1st installment) to the Department of Biotechnology, Karpagam Academy of Higher Education, Pollachi Main Road, Eachanari Post, Coimbatore - 641021, Tamil Nadu under FIST Program.

Sanction of the President is hereby accorded to the approval of the aforesaid project at a total cost of Rs. 44,80,000 (Rupees Forty Four lakh and eighty thousand only) for 5 years. The detailed breakup of the grant for General as well as Capital Components are given below:

To strengthen the Post graduate teaching and research facilities in the Department. on 50:50 Mode (Being a Private University)

Capital Assets: Rs. 40.0 L

E-Rs. 40.0 L [(i) 2D PAGE System- Rs 20.0L, (ii) Particle Bombardment System- Rs 12.0L and (iii) Fluorescence Microscope- Rs 8.0L]

General Components: Rs. 4.80 L

M- Rs. 4.80 L

Total : Rs 44.80 Lakh

2. The total budget recommended for 5 years has been phased as below: (Rs. In lakh)

Budget Heads	1 st year	2 nd year	3 rd year	4 th year	5 th year	Total
Equipment	40.0	-	-	-	-	40.0 [DST-20.0L & KAHE- 20.0L]
Maintenance	-	1.0	1.0	1.4	1.4	4.8 [DST-2.4L & KAHE- 2.4L]
Total	40.0	1.0	1.0	1.4	1.4	44.80

3. Sanction of the President is also accorded to the release of Rs 20,00,000/- (Rupees twenty lakh only) to the Registrar, Karpagam Academy of Higher Education, Pollachi Main Road, Eachanari Post, Coimbatore - 641021, Tamil Nadu under FIST Program as a 1st installment of the grant in 2019-2020 under 'creation of capital assets' head for the maximum cost of the aforesaid Equipment including (9.4%) Custom Duty & other duties under the 'Equipment'. The break-up of the 1st installment grant released now would be 'Equipment': Rs. 20.0 lakh for procurement of Equipment mentioned above [Equipments of Foreign Origin to be acquired on FE Terms only and should not include charges for any comprehensive Maintenance and training personnel from the vendors during procurement process].

4. The Department/Institute will appropriately limit the expenditure within the sanctioned amount in case of any expected excess expenditure. The Department is requested to utilize the released funds in first one year from the date of sanction order.

5. 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.

6. The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division with UC id generated in PFMS Portal. 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.

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

8. There is no pending SE/UC on this Project as per details in the PFMS also. This is the first release of this project under FIST Program, which has been initiated, in this financial year so no previous UC is attached with this sanction order.

9. 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 University/Institute 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 University/Institute immediately on receipt of the grant, and

(b). while submitting Utilization Certificate/Statement of Expenditure, the University/Institute has to ensure submission of supporting documentary evidences with regard to 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.

c) Grantee Institute may furnish copy of invoice in respect of equipments worth Rs. 5.0 L and above along with customs clearance certification (in case of imported equipments) after procurement of the equipments.

d) Servers, Desktops, Workstations, Printers etc. may be procured through GeM (Government E-Market) platform.

e) Grantee Institute will furnish copy of bills showing expenditure incur on maintenance of the equipments after warranty period of respective equipments are over.

10. "In terms of Rule 230(8) of GFR 2017, 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, generated against released Grant shall be remitted to Consolidated Fund of India".

11. 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.

12. 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.

13. 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.

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

15. The expenditure involved is to be debited to

Demand No. -86 Department of Science & Technology;

"3425" -Other Scientific Research (Major Head);

60-Others (Sub-Major Head);

60.200-Assistance to other Scientific Bodies (Minor Head);

68- Science and Technology Institutional and Human Capacity Building

68.00.35-Grants for creation of capital assets for the year 2019-2020 (Voted)

[Previous: R&D Support: 3425.60.200.25.01.35]

The above release is made under 'R&D' Scheme

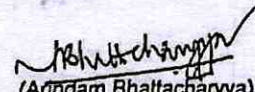
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16. The amount of Rs 20,00,000/- (Rupees twenty lakh only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the Registrar, Karpagam Academy of Higher Education, Pollachi Main Road, Eachanari Post, Coimbatore - 641021, Tamil Nadu. The bank details for electronic transfer of funds through RTGS are given below:-

1. Name of the Account Holder: Registrar, Karpagam Academy of Higher Education
2. Name of the Bank: Yes Bank
3. Bank Account Number: 003694600000978
4. IFSC Code: YESB00000036
5. MICR Code:

17. As per Rule 234 of GFR 2017, this sanction has been entered at S. No.133 the register of grants maintained in the Division for the scheme (R&D Support).

18. This issues with the concurrence of IFD Vide their Concurrence Dy.No. 3489 dated the 28.09.2019.


(Arindam Bhattacharyya)
Scientist 'E'
Email: a.bhattacharyya@nic.in

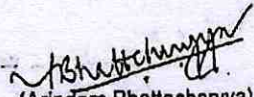
To
The Pay and Accounts Officer,
Department of Science & Technology,
New Delhi.

Copy forwarded for information and necessary action to:

1. Cash Section (with two spare copies).
2. Registrar,
Karpagam Academy of Higher Education,
Pollachi Main Road, Eachanari Post,
Coimbatore - 641021,
Tamil Nadu

3. Head,
Department of Biotechnology,
Karpagam Academy of Higher Education,
Pollachi Main Road, Eachanari Post,
Coimbatore - 641021,
Tamil Nadu

4. Office of the Director & Audit, Scientific Department, AGCR Bldg., 3rd Floor, IP Estate, New Delhi - 110002. Office of Account General, Tamil Nadu, Chennai
5. FIST-Secretariat.
6. CoA / IFD, DST, New Delhi.
7. Head, R & D (Infrastructure), DST New Delhi.
8. Sanction Folder.


(Arindam Bhattacharyya)
Scientist 'E'
Email: a.bhattacharyya@nic.in

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Sanction order

Subject: Financial support for project entitled "SUDDHA VAAYU: An Electrical Chamber for Detection and Mitigation of Air Pollution" by Lt. Dr. K. P. Sridhar, Karpagam Academy of Higher Education, Coimbatore- 641021, Tamil Nadu.

With reference to the Sanction Order No. DST/TMD/CERI/Air Pollution/2018/005 (KA) (G) dated 28-09-2018 The sanction of the President is also accorded to the release of Rs.52,00,000/- (Rupees fifty two lakh only) to Karpagam Academy of Higher Education, Coimbatore- 641021, Tamil Nadu being the first installment of grant under "Capital Component" for implementation of the above mentioned project. The items of expenditure for which the total allocation of Rs.69,52,000/- has been approved for a period of 24 Months are given below:

Sl.No.	Sanction head	1st Year	2nd Year	Total
A	Non-recurring (Capital Items) Budget Head 3425.60.200.70.00.35			
I	Plant Cost/ Fabrication systems/ Demonstration Models	Rs.52,00,000	Rs.0	Rs.52,00,000
	Total (Capital)	Rs.52,00,000	Rs.0	Rs.52,00,000
B	Recurring (General) Budget Head 3425.60.200.70.00.31			
I	Man Power	Rs.3,60,000	Rs.3,60,000	Rs.7,20,000
Man Power Details: One JRF @ Rs.25,000 Per month + 20% H.R.A				
II	Consumables	Rs.1,00,000	Rs.1,00,000	Rs.2,00,000
III	Contingency	Rs.50,000	Rs.50,000	Rs.1,00,000
IV	Travel	Rs.50,000	Rs.50,000	Rs.1,00,000
V	Over Heads	Rs.5,76,000	Rs.56,000	Rs.6,32,000
	Total(General)	Rs.11,36,000	Rs.6,16,000	Rs.17,52,000
C	Grand Total	Rs.63,36,000	Rs.6,16,000	Rs.69,52,000

2. 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.

3. The grantee organisation will have to enter & upload the Utilization Certificate in the PI MS 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 FFMS.

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4. 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.

5. 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. 2018-19 and onwards, all interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India, 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 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.

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 2018-19:

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	:	Grants for creation of capital assets-Plan (2018-19)
(Previous: TDP-TMD -3425.60.200.26.01.35)		

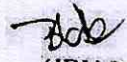
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14. The amount Rs.52,00,000/- (Rupees fifty two lakh only) to The Principal, Karpagam Academy of Higher Education, Coimbatore- 641021, Tamil Nadu will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the following as per the details given below:

6.	Name of the Account Holder	KARPAGAM ACADEMY OF HIGHER EDUCATION
7.	Name of the Bank	Yes Bank, Coimbatore branch, Tamil Nadu
8.	Bank Account Number	003694600000976
9.	IFSC Code	YESB0000036
10.	MICR Code	641532002

15. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 247 in the register of grants maintained in the Division for the scheme Technology Development Programme.

16. This issues with the concurrence of IFD Vide their Concurrence Dy. No. 3083 Dated 28-09-2018.


(JBV Reddy)
Scientist 'D'

10

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, DST, New Delhi.
4. The Director of Audit, III Floor, AGCR Building, IP Estate, New Delhi
5. **Lt. Dr. K.P. Sridhar,**
Karpagam academy of Higher Education,
Coimbatore- 641021,
Tamil Nadu.
6. **The Principal,**
Karpagam academy of Higher Education,
Coimbatore- 641021, Tamil Nadu.
7. **Dr. Sri Harsha Kota,**
Department of Civil Engineering,
Indian Institute of Technology Delhi,
New Delhi - 110016,
Delhi.
8. **The Registrar,**
Indian Institute of Technology Delhi,
New Delhi - 110016 Delhi
9. Master File
10. Office Copy
11. Head, TMD (E&W)
12. FICCI Cell


(JBV Reddy)
Scientist 'D'

SP/YO/559/2018(G)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(SEED Division)

Technology Bhavan,
New Delhi-110016
Dated: 24/12/2018

ORDER

Sub:-Financial assistance for the project titled "Development of A Fully Automated Municipal Solid Waste Segregator with Advanced Sensing Module Using Application Specific Integrated Micro Controllers" under the guidance of Prof. Baskar. S, Karpagam Academy of Higher Education-Coimbatore, Tamilnadu-641021.

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of **Rs.32,64,360/- (Rupees Thirty Two Lakh Sixty Four Thousand Three Hundred Sixty only)** for a duration of three years. The detailed breakup of the grant for General & Capital Components are given below:-

General Component Rs.19,54,560/-
Capital Assets Rs.13,09,800/-
TOTAL **Rs.32,64,360/-**

S. No.	Proposed Budget Head	1 st year	2 nd year	3 rd year	Total
Capital Assets					
	Equipment's	13,09,800/-	-----	-----	13,09,800/-
A	TOTAL	13,09,800/-	-----	-----	13,09,800/-
Manpower					
	JRF (01) @Rs.25,000/- + 5% HRA per month for 1st & 2nd year and Rs.28,000/- + 5% HRA for 3rd year.	3,15,000/-	3,15,000/-	3,52,800/-	9,82,800/-
Travel					
	Travel	50,000/-	50,000/-	50,000/-	1,50,000/-
Demo Training					
	Demo Training	75,000/-	75,000/-	75,000/-	2,25,000/-
Consumables					
	Fabrication materials, Sensor and valve accessories(Pump and Mechanical Equipments).	1,00,000/-	1,00,000/-	1,00,000/-	3,00,000/-
Contingency					
	Contingencies @3%	55,494/-	16,200/-	17,334/-	89,028/-
Overheads (7% of Above Costs)					
	Overheads	1,29,486/-	37,800/-	40,446/-	2,07,732/-
B	Total	7,24,980/-	5,94,000/-	6,35,580/-	19,54,560/-
Grand Total (A+B)		20,34,780/-	5,94,000/-	6,35,580/-	32,64,360/-

/ / 12/18

2. The sanction of the President is also accorded to the release of Rs.7,24,980/- (Rupees Seven Lakh Twenty Four Thousand Nine Hundred Eighty only) to Karpagam Academy of Higher Education-Coimbatore, Tamilnadu-641021 being the first installment 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 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 & 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 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 organisation 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 finalisation 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 / Utilisation Certificate for considering subsequent release of Grant/ Closure of Project accounts."

"(Name of the Institution) 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". (ii) While sanctioning Grants-in-aid to Institutions or Organizations referred to in (a) above, the Grant sanctioning authority should keep in view the progress made by such Institutions or Organization in employing Scheduled Castes and Scheduled Tribes or OBC candidates in their services and also as per the GFR 2017 Rule 230(17)."

8. (a). DST reserves sole rights on the assets 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.

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(b). DST reserves rights to close the project activity any time based on the review of progress of the project.

(c). A prior intimation to DST by grantee is must before leaving the country for attending conference/availing any short term fellowship abroad during the project tenure.

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 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.

11. 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.

12. The expenditure involved is dubitable to Demand No.84, Department of Science & Technology for the year 2018-19:

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 2018-19 (Plan)

*(Previous : SSP-SEED-3425.60.200.08.11.31)

13. The amount of Rs.7,24,980/- (Rupees Seven Lakh Twenty Four Thousand Nine Hundred Eighty only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to **Karpagam Academy of Higher Education-Coimbatore, Tamilnadu-641021**. The bank details for electronic transfer of funds through RTGS are given below:-

Institution Account Name	Karpagam Academy of Higher Education-Coimbatore, Tamilnadu
Saving Bank Account Number	003694600000976
Name of Bank	Yes Bank
Branch Name	Coimbatore, Tamilnadu
RTGS/IFS Code	YESB000036
MICR Code	641532002

14. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 123 in the register of grants maintained in the Division for the scheme (Scheme for Young Scientist and Technologists)

15. This issues with the concurrence of IFD Vide their Concurrence Dy. No. C/4345/IFD 2018-19 Dated: 24/12/2018.

16. Niti Aayog Darpan Portal I.D. for the institute is 'TN/2017/0165333'


(Dr. Rashmi Sharma)
Scientist-'E'
011-26590541

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

Copy for information and necessary action to:-

1. Cash Section (3 copies) for making the payment to the grantee.
2. Account Section.
3. Director of Audit, (Scientific Deptt), AGCR Building, New Delhi - 110 092.
4. Sanction Folder
5. Head (SEED)
6. Prof. Baskar. S, Karpagam Academy of Higher Education Coimbatore, Tamilnadu-641021.


(Dr. Roshan Sharma)
Scientist 'B'
011-26590541

FILE NO. ECR/2017/002703

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: 10-Sep-2018

ORDER

Subject: Financial Sanction of the research project titled **"IMPLEMENTING AUTOMATIC BRAIN ABNORMALITY DETECTION SYSTEM USING REACTIVE OPTIMIZED CONVOLUTION NEURAL NETWORKS"** under the guidance of Dr. Sridhar K P, Electronics and Communication Engineering, Karpagam Academy of Higher Education, Pollachi main road, coimbatore, Coimbatore, Tamil nadu-641021
- 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. 3228790/- (Rs. Thirty Two Lakh Twenty Eight Thousand Seven Hundred and Ninety Only) with break-up of Rs. 1399270/- under Capital (Non-recurring) head and Rs.1829520/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 3228790/- has been approved are given below:

The following budget may be considered for Karpagam Academy Of Higher Education, Pollachi Main Road, Coimbatore

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Qualnet -> MATLAB -> MRI image detector and P-300 wave analyzer -> Development Module with one coordinator and two end devices -> Printed circuit board -> microcontroller	1399270
A'	Total (Non-Recurring)	1399270
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies)	936000 600000
2	Recurring - III : (Overhead Charges)	293520
B'	Total (Recurring)	1829520
C	Total cost of the project (A' + B')	3228790

2. Sanction of the SERB is also accorded to the payment of Rs. 1399270/- (Rupees Thirteen Lakh Ninety Nine Thousand Two Hundred and Seventy only) under 'Grants for creation of capital assets' and Rs. 609840/- (Rupees Six Lakh Nine Thousand Eight Hundred and Forty only) under 'Grants-in-aid General' to Registrar, Karpagam Academy Of Higher Education, Pollachi Main Road, Coimbatore 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 Early Career Research Award. (EC Engineering Sciences)

4. The Sanction has been issued to Karpagam Academy Of Higher Education, Pollachi Main Road, Coimbatore with the approval of the competent authority under delegated powers on 24 August, 2018 and vide Diary No. SERB/F/6193/2018-2019 dated 30 August, 2018

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. 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.
9. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
10. The release amount of Rs. 2009110/- (Rupees Twenty Lakh Nine Thousand One Hundred and Ten 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	Karpagam Academy of Higher Education
Account Number	170002000000959
Bank Name & Branch	Indian Overseas Bank Karpagam College Branch, Seerapalayam, Pollachi Main Road, Echanari Post, Coimbatore-641 021, TamilNadu, India.
IFSC/RTGS Code	IOBA0001700
Email id of A/C Holder	registrar@karpagam.ac.in
Email id of PI	capsridhar@gmail.com

11. The institute will furnish to the SERB, New Delhi, 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.
12. 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.
13. The project File no. ECR/2017/002703 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.
14. 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.
15. As this is the first grant being released for the project, no previous U/C is required.
16. 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.
17. 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.
18. 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. Ramesh Vijayan)
SCIENTIST-C
drvramesh@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. Sridhar K P Electronics and Communication Engineering Karpagam Academy of Higher Education , Pollachi main road, coimbatore, Coimbatore, Tamil nadu-641021 Email: capsridhar@gmail.com Mobile: 919842291558 (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.	Registrar, Karpagam Academy Of Higher Education, Pollachi Main Road, Coimbatore (Receipt of Grant may be intimated by name to the undersigned)


(Dr. Ramesh Vijayan)
SCIENTIST-C
drvramesh@serb.gov.in

File No. DST/TMD/CERI/Air Pollution/2018/007 (IITD) (G)
Government of India
Ministry of Science & Technology
Department of Science & Technology

Technology Bhas
New Mehrauli Rc
New Delhi-110 0
Date: 07-12-20

Sanction order

Subject: Financial support for project entitled "Collecting Particulate Matter in air using filters placed on the top of moving car" by Dr. Sri Harsha Kota, Department of Civil Engineering, Indian Institute of Technology Delhi, New Delhi - 110016, Delhi, Dr. V. R. Sarma Dhulipala, Department of Physics, Anna University-BIT Campus Tiruchirappalli- 620024, Tamil Nadu and Lt. Dr. K. P. Sridhar, Karpagam Academy of Higher Education Coimbatore- 641021, Tamil Nadu.

Sanction of the President is hereby accorded to the above-mentioned project at a total cost of Rs. 1,13,35,720 (Rupees One crore thirteen lakh thirty five thousand seven hundred and twenty only) with break-up of Rs.65,30,000/- under Capital (Non-recurring) head and Rs.48,05,720/- under General (Recurring) head for 12 months out of which Rs.88,38,720/- with break-up of Rs.57,30,000/- under Capital (Non-recurring) head and Rs.31,08,720/- under General (Recurring) head for 12 months to Anna University, Tamil Nadu and Rs.18,81,000/- with break-up of Rs.8,00,000/- under Capital (Non-recurring) head and Rs.10,81,000/- under General (Recurring) head for 12 months to Karpagam Academy of Higher Education, Tamil Nadu. The items of expenditure for which the total allocation of Rs. 1,13,35,720/- has been approved for a period of 12 months are given below:

2. The items of expenditure for which the total allocation has been approved are given below:

Sl.No.	Sanction head	1st Year	Total
A	Non-recurring (Capital Items) Budget Head 3425.60.200.70.00.35		
I	Pmt Equipment	Rs.63,30,000	Rs.63,30,000
II	Plant Cost/ Fabrication systems/ Demonstration Models	Rs.2,00,000	Rs.2,00,000
	Total (Capital)	Rs.65,30,000	Rs.65,30,000
B	Recurring (General) Budget Head 3425.60.200.70.00.31		
I	Man Power	Rs.21,24,000	Rs.21,24,000
II	Consumables	Rs.14,50,000	Rs.14,50,000
III	Contingency	Rs.1,50,000	Rs.1,50,000
IV	Travel	Rs.2,00,000	Rs.2,00,000
V	Over Heads	Rs.8,81,720	Rs.8,81,720
	Total(General)	Rs.48,05,720	Rs.48,05,720
C	Grand Total	Rs.1,13,35,720	Rs.1,13,35,720

(A) The break-up of the cost head wise and year wise for Lead Institute: IIT, Delhi is given below:

Sl.No.	Sanction head	1st Year	Total
A	Non-recurring (Capital Items) Budget Head 3425.60.200.70.00.35		
I	Pmt Equipment	Rs.55,30,000	Rs.55,30,000
Equipment Details: 1. Air Quality Instruments(3 Nos.) 2. Accurate GPS (1 No.) 3. CFD software & 4. Workstation (2 Nos.)			
II	Plant Cost/ Fabrication systems/ Demonstration Models	Rs.2,00,000	Rs.2,00,000
	Total (Capital)	Rs.57,30,000	Rs.57,30,000
B	Recurring (General) Budget Head 3425.60.200.70.00.31		
I	Man Power	Rs.14,04,000	Rs.14,04,000
Man Power Details: Two JRF @ Rs.25,000 Per month + 30% H.R.A One RA-III @ Rs.40,000 Per month + 30% H.R.A			
II	Consumables	Rs.9,00,000	Rs.9,00,000
III	Contingency	Rs.50,000	Rs.50,000
IV	Travel	Rs.1,00,000	Rs.1,00,000
V	Over Heads(8%)	Rs.6,54,720	Rs.6,54,720
	Total(General)	Rs.31,08,720	Rs.31,08,720
C	Grand Total	Rs.88,38,720	Rs.88,38,720

(B) The break-up of the cost head wise and year wise for Anna University, Tamil Nadu is given below:

Sl.No.	Sanction head	1st Year	Total
B	Recurring (General) Budget Head 3425.60.200.70.00.31		
I	Man Power	Rs.3,60,000	Rs.3,60,000
Man Power Details: One JRF @ Rs.25,000 Per month + 20% H.R.A			
II	Consumables	Rs.1,00,000	Rs.1,00,000
III	Contingency	Rs.50,000	Rs.50,000
IV	Travel	Rs.50,000	Rs.50,000
V	Over Heads(10%)	Rs.56,000	Rs.56,000
	Total(General)	Rs.6,16,000	Rs.6,16,000
C	Grand Total	Rs.6,16,000	Rs.6,16,000

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(C) The break-up of the cost head wise and year wise for Karpagam Academy of Higher Education, Tamil Nadu is given below:

Sl.No.	Sanction head	1st Year	Total
A	Non-recurring (Capital Items) Budget Head 3425.60.200.70.00.35		
I	Pmt Equipment	Rs.8,00,000	Rs.8,00,000
Equipment Details: 1. Fusion Sensor System (1 No.)			
	Total (Capital)	Rs.8,00,000	Rs.8,00,000
B	Recurring (General) Budget Head 3425.60.200.70.00.31		
I	Man Power	Rs.3,60,000	Rs.3,60,000
Man Power Details: One JRF @ Rs.25,000 Per month + 20% H.R.A			
II	Consumables	Rs.4,50,000	Rs.4,50,000
III	Contingency	Rs.50,000	Rs.50,000
IV	Travel	Rs.50,000	Rs.50,000
V	Over Heads(10%)	Rs.1,71,000	Rs.1,71,000
	Total(General)	Rs.10,81,000	Rs.10,81,000
C	Grand Total	Rs.18,81,000	Rs.18,81,000

Summary:

	Total Amount Proposed	Release		
		General	Capital	Total
IIT, Delhi	Rs.88,38,720/-	Rs.27,97,000/-	Rs.57,30,000/-	Rs.85,27,000/-
Anna University	Rs.6,16,000/-	Rs.5,54,000/-	Nil	Rs.5,54,000/-
Karpagam Academy of Higher Education	Rs.18,81,000/-	Rs.9,72,000/-	Rs.8,00,000/-	Rs.17,72,000/-
Total Grant	Rs.1,13,35,720/-	Rs.43,23,000/-	Rs.65,30,000/-	Rs.1,08,53,000/-

Bole

3. The sanction of the President is also accorded to the release of **Rs.27,97,000/- (Rupees twenty seven lakh ninety seven thousand only)** to **Indian Institute of Technology Delhi, New Delhi - 110016, Delhi** being the first installment of grant under "General Component" for implementation of the above mentioned project.
4. 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.
5. The grantee organisation will have to enter & upload the Utilization Certificate in the PI MS 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 FFMS.
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 released Capital head grant.
7. 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.
 - (c) PI/Institute was suggested to purchase the non-recurring capital items through Government e-Marketplace (GeM), to the extent available, as the project involves government funding.
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".
9. 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.
10. 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.
11. 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.
12. 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.

[Signature]

13. 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.

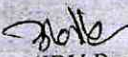
14. The expenditure involved is debit to
Demand No.84, Department of Science & Technology for the year 2018-19:
3425 : Other Scientific Research (Major Head)
60 : Others
60.200 : Assistance to Other Scientific Bodes (Minor Head)
70 : Innovation, Technology Development and Deployment
70.00.31 : Grants-in-aid General for the year 2018-19 (Plan)
(Previous: TDP-TMD-3425.60.200.26.01.31)

15. The amount Rs.27,97,000/- (Rupees twenty seven lakh ninety seven thousand only) to The Registrar, Indian Institute of Technology Delhi, New Delhi - 110016, Delhi will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the following as per the details given below:

1.	Name of the Account Holder	IRD Account IITD
2.	Name of the Bank	State Bank of India, IIT Branch, IIT Hauz Khas, New Delhi- 110016, Delhi
3.	Bank Account Number	10773572600
4.	IFSC Code	SBIN0001077
5.	MICR Code	110002156

16. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 326 in the register of grants maintained in the Division for the scheme Technology Development Programme.

17. This issues with the concurrence of IFD Vide their Concurrence Dy. No. 3956 Dated 07-12-2018.


(JBV Reddy)
Scientist 'D'

NO. SR/S1/OC-28/2011
SCIENCE & ENGINEERING RESEARCH BOARD

Technology Bhavan
New Mehrauli Road
New Delhi - 110 016.

Dated 5th September, 2012

ORDER

Subject: Financial Sanction of the research project titled "**Greener synthesis of Rhodanine derivatives and a study of their anticancer activity**" under the guidance of **Prof. S. Ravi**, Dept. of Chemistry, Karpagam University, Pollachi Main Road, Eachanari Post, Coimbatore-641021, Tamil Nadu -Release of first grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of **Rs. 38,00,000/- (Rupees Thirty eight lakh only)** with break-up of **Rs.13,40,000/- under Capital head** and **Rs.24,60,000/- under General head** for a duration of three years. The items of expenditure for which the total allocation of **Rs. 38,00,000/-** has been approved for a period of **three years**, are given below:

Sl. No	Head	Total (in Rs.)
A	Non-recurring (Capital Items)	
1	Equipment Microwave Oven (Microwave Synthesizer , Rotary Evaporator , Hot air oven	13,40,000
A'	Total (Capital)	13,40,000
B	Recurring Items (General)	
1	General - A (Manpower, Consumables, Travel, Analytical Charges,& Contingencies)	19,60,000
2	General - B (Overhead Charges)	5,00,000
B'	Total (General)	24,60,000
C	Total cost of the project (A' + B')	38,00,000

2. Sanction of the SERB is also accorded to the payment of **Rs.13,40,000/- (Rupees Thirteen lakh forty thousand only)** under 'Grants for creation of Capital assets' and **Rs.6,60,000/- (Rupees Six lakh sixty thousand only)** under 'Grants-in-aid -General' to the Registrar, Karpagam University, Coimbatore being the grant for the year 2012-13 for implementation of the said research project.

3. The expenditure involved is debitable to

Grant-in-aid for the year 2012-13 (Plan Expenditure- Capital) - Rs.13,40,000/-

&

Grant-in-aid for the year 2012-13 (Plan Expenditure- General) - Rs.6,60,000/-

This release is made under **Science & Engineering Scheme**.

4. The Sanction has been issued with the approval of the competent authority under delegated powers and vide Diary No.SERB/F/ 3058 /2012-13 dated 5-9-2012 .

Contd...2/-

5. Sanction of the grant is subject to the conditions as detailed in Annexure - I.
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 General-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
8. The total release amount of **Rs.20,00,000/- (Rupees Twenty lakh only)** will be drawn by the Drawing & Disbursing Officer of the SERB and will be disbursed by means of cheque/DD favouring **"REGISTRAR, KARPAGAM UNIVERSITY, COIMBATORE "** and will be sent to **Registrar, Karpagam University, Pollachi Main Road, Eachanari Post, Coimbatore-641021, Tamil Nadu.**
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 institute will furnish to the SERB, New Delhi, Utilization certificate and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.
11. The institute will maintain separate audited accounts for the project. It is found expedient to keep a part or whole of grant in a bank account earning interest. The interest earned should be reported to the SERB, New Delhi. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant.
12. The sanctioned equipments would be procured as per GFR and its disposal would be done with prior approval of SERB.
13. As this is the first grant being released for the project, no previous U/C is required.

Gacv
(Jacob V.V.)
Scientist-D

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	Copy with two spare copies of the sanction to the Drawing and Disbursing Officer, SERB, New Delhi
3	Pay Accounts Officer, SERB, New Delhi
4	Sanction Folder, SERB, New Delhi.
5	File Copy
6	Prof. S. Ravi, Dept. of Chemistry, Karpagam University, Pollachi Main Road, Eachanari Post, Coimbatore-641021, Tamil Nadu
7	Registrar Karpagam University, Pollachi Main Road, Eachanari Post, Coimbatore-641021, Tamil Nadu

Gacv
(Jacob V.V.)
Scientist-D

55/18/513

KARPAGAM UNIVERSITY	
Chancellor	
CEO	

KARPAGAM UNIVERSITY	
NO. SB/ET/LS-136/2012	
SCIENCE & ENGINEERING RESEARCH BOARD	
Chancellor	
Registrar	



Comp
5/13

ORDER

Subject: Financial Sanction of the research project titled "Modulatory effect of Erythrina variegata L. bark extract on glucose uptake in streptozotocin induced diabetic rats" under the guidance of Dr.(Ms.) K. Devaki, Deptt. of Biochemistry, Karpagam University, Eachanari, Coimbatore-641021, Tamil Nadu.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 20,00,000/- (Rs. Twenty Lakh Only) with break-up of Rs. 3,00,000/- under Capital head and Rs. 17,00,000/- under General head for a duration of three years. The items of expenditure for which the total allocation of Rs. 20,00,000/- has been approved for a period of three years, are given below:

Sl. No	Head	Total (in Rs.)
A	Non-recurring (Capital Items)	
1	Equipment Microplate Reader	3,00,000
A'	Total (Capital)	3,00,000
B	Recurring Items (General)	
1	General - A (Manpower, Consumables, Travel, Contingencies, Analytical/Biological Analysis Charges)	14,00,000
2	General - B (Overhead Charges)	3,00,000
B'	Total (General)	17,00,000
C	Total cost of the project (A' + B')	20,00,000

To HOD
Biochemistry

2. Sanction of the SERB is also accorded to the payment of Rs. 3,00,000/- (Rs. Three Lakh Only) under 'Grants for creation of Capital assets' and Rs. 4,00,000/- (Rs. Four Lakh Only) under 'Grants-in-aid -General' to the REGISTRAR, KARPAGAM UNIVERSITY, COIMBATORE being the grant for the year 2013-14 for implementation of the said research project.

3. The expenditure involved is debitable to
Grant-in-aid for the year 2013-14 (Plan Expenditure- Capital) - Rs. 3,00,000/-
&
Grant-in-aid for the year 2013-14 (Plan Expenditure- General) - Rs. 4,00,000/-

This release is made under OYS Scheme.

4. The Sanction has been issued with the approval of the competent authority under delegated powers and vide Diary No. SERB/F/44/2013-14 dated 04.04.2013.

5. Sanction of the grant is subject to the conditions as detailed in guidelines available at 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.

Contd...2/-

5/5/13

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

8. The total release amount of **Rs. 7,00,000/- (Rs.Seven Lakh Only)** will be drawn by the Drawing & Disbursing Officer of the SERB and will be disbursed by means of cheque/DD favoring **"REGISTRAR, KARPAGAM UNIVERSITY, COIMBATORE"** and will be sent to Registrar, Karpagam University, Pollachi Main Road, Eachanari(Post), Coimbatore-641021, Tamil Nadu.

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 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 etc. beyond the duration of the project.

11. The institute will furnish to the SERB, New Delhi, Utilization certificate and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

12. The institute will maintain separate audited accounts for the project. It is found expedient to keep a part or whole of grant in a separate bank account earning interest. The interest earned should be reported to the SERB, New Delhi. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant.

13. The sanctioned equipments would be procured as per GFR and its disposal would be done with prior approval of SERB.

14. The project File no. **SB/FT/LS-136/2012** may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

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

Gach
(Jacob V.V.)
Scientist-D

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	Copy with two spare copies of the sanction to the Drawing and Disbursing Officer, SERB, New Delhi
3	Pay Accounts Officer, SERB, New Delhi
4	Sanction Folder, SERB, New Delhi.
5	File Copy
6	Dr.(Ms.) K. Devaki Deptt. of Biochemistry Karpagam University, Eachanari, Coimbatore-641021, Tamil Nadu (Start date of the project may be intimated by name to the undersigned. Please visit website www.serb.gov.in for all formats and guidelines etc.)
7	Registrar, Karpagam University, Pollachi Main Road, Eachanari(Post), Coimbatore-641021, Tamil Nadu (Receipt of Cheque/DD may be intimated by name to the undersigned.)

Gach
(Jacob V.V.)
Scientist-D

2012 - 2015

NO. SR/FT/LS-164/2010

SCIENCE & ENGINEERING RESEARCH BOARD

Technology Bhavan
New Mehrauli Road
New Delhi - 110 016.

Dated: 13th August, 2012**ORDER**

Subject: Financial Sanction of the research project titled "cloning & expression of human calreticulin (CRT) gene on human breast cancer cell line: A foundation of DNA Vaccine" under the guidance of Dr. (Ms.) S. Sudha, Deptt. of Biotechnology, School of Life Sciences, Karpagam University, Coimbatore-641021, Tamil Nadu- Release of first grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs.20,22,000/- (Rupees Twenty lakh twenty two thousand only) with break-up of Rs.4,56,000/- under Capital head and Rs.15,66,000/- under General head for a duration of three years. The items of expenditure for which the total allocation of Rs.20,22,000/- has been approved for a period of three years, are given below:

Sl. No	Head	Total (in Rs.)
A	Non-recurring (Capital Items)	
1	Equipment Air jacketed CO ₂ Incubator	4,56,000
A'	Total (Capital)	4,56,000
B		
1	General - A (Manpower, Consumables, Travel, Contingencies, Analytical/Biological Analysis Charges)	12,66,000
2	General - B (Overhead Charges)	3,00,000
B'	Total (General)	15,66,000
C	Total cost of the project (A' + B')	20,22,000

2. Sanction of the SERB is also accorded to the payment of Rs. 4,56,000/- (Rupees Four lakh fifty six thousand only) under 'Grants for creation of Capital assets' and Rs. 4,44,000/- (Rupees Four lakh forty four thousand only) under 'Grants-in-aid-General' to Registrar, Karpagam University, Coimbatore being the grant for the year 2012-13 for implementation of the said research project.

3. The expenditure involved is debitable to

Grant-in-aid for the year 2012-13 (Plan Expenditure- Capital) - Rs. 4,56,000/-

& Grant-in-aid for the year 2012-13 (Plan Expenditure- General) - Rs. 4,44,000/-

This release is made under OYS Scheme.

4. The Sanction has been issued with the approval of the competent authority under delegated powers and vide Diary No.SERB/F/2490/2012-13 dated 6th August, 2012.

5. Sanction of the grant is subject to the conditions as detailed in Annexure - 1.

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 General-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. The total release amount of Rs.9,00,000/- (Rupees Nine lakh only) will be drawn by the Drawing & Disbursing Officer of the SERB and will be disbursed by means of cheque/DD favouring REGISTRAR, KARPAGAM UNIVERSITY, COIMBATORE and will be sent to Registrar, Karpagam University, Coimbatore-641021.

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 institute will furnish to the SERB, New Delhi, Utilization certificate and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

11. 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 etc. beyond the duration of the project.

12. The institute will maintain separate audited accounts for the project. It is found expedient to keep a part or whole of grant in a separate bank account earning interest. The interest earned should be reported to the SERB, New Delhi. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant.

13. The sanctioned equipments would be procured as per GFR and its disposal would be done with prior approval of SERB.

14. The project File no. SR/FT/LS-164/2010 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

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

(Jacob V. V.)
Scientist D

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	Copy with two spare copies of the sanction to the Drawing and Disbursing Officer, SERB, New Delhi
3	Pay Accounts Officer, SERB, New Delhi
4	Sanction Folder, SERB, New Delhi.
5	File Copy
6	Dr.(Ms.) S. Sudha, Deptt. of Biotechnology, School of Life Sciences, Karpagam University, Coimbatore-641021
7	Registrar, Karpagam University, Coimbatore-641021

(Jacob VV)
Scientist-D



No. BT/Bio-CARE/08/58/2010-11
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

2012 - 2015

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 9/2/12

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled "**In vitro and in vivo Study on the Role of Calreticulin Expression in Breast Cancer Suppression**" for a period of 3 Year 0 Month at a total cost of Rs. **2131620** (Rupees Twenty One Lakhs Thirty One Thousand Six Hundred and Twenty Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "**In vitro and in vivo Study on the Role of Calreticulin Expression in Breast Cancer Suppression**"

2.2 Project Investigator :

Dr. S Sudha
Associate Professor
Biotechnology
Karpagam University, Coimbatore
Coimbatore, Coimbatore -
641021, Tamilnadu

KARPAGAM UNIVERSITY	
Principal	
CEO	

KARPAGAM UNIVERSITY	
Vice-Chancellor	
Registrar	

2.3 Objectives:

1. Construction of CRT expression vector
CRT gene amplification from cDNA obtained by reverse transcription of total human RNA. Cloning of gene into a mammalian expression vector containing suitable promoter for expressing the CRT gene.
2. Tumor induction in SCID mouse
Female nude mice implanted orthotopically in the mammary fat pad with MCF-7 cells from culture
3. Preparation of DNA-coated gold particles
The mammalian expression vector will be coated on to gold nanoparticles for delivery into the cancer cells
4. Effect of CRT plasmid vector coated gold nanoparticles on cancer growth
in vitro Human breast cancer cell lines (MCF-7) will be transfected with the DNA coated gold nanoparticles. MTT assay, Flow cytometry and Mitochondrial membrane potential disruption assays will be performed on the transfected cell lines to analyze its effect on tumor suppression in comparison with non transfected MCF-7 cell lines
5. Effect of CRT plasmid vector coated gold nanoparticles on cancer growth
in vivo CRT coated gold nanoparticles will be introduced into tumor induced mice. One week later, the mice will be sacrificed and MTT assay, Flow cytometry and Mitochondrial membrane potential disruption assays will be performed to analyze its effect on tumor suppression in vivo in comparison with its controls.

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **2131620/-** (Rupees Twenty One Lakhs Thirty One Thousand Six Hundred and Twenty Only) as per details given below :

Budget Head	Year I	Year II	Year III	Total(Rs.)
Equipment	101220.00			101220.00
Manpower	376800.00	376800.00	376800.00	1130400.00
Travel	50000.00	50000.00	50000.00	150000.00
Consumables	250000.00	250000.00	100000.00	600000.00
Contingency	50000.00	50000.00	50000.00	150000.00
Total (Rs.)	828020.00	726800.00	576800.00	2131620.00

2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at Annexure-I

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at Annexure-II

3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

Demand No. 87	Department of Biotechnology
3425	Other Scientific Research 2011-2012
3425.60	Others
3425.60.200	Assistance to other Scientific Bodies
3425.60.200.17	Human Resource Development
3425.60.200.17.07	Biotechnology Education and Training
3425.60.200.17.07.35	Grants for creation of capital assets

The **Recurring** expenditure involved is debitable to:

Demand No. 87	Department of Biotechnology
3425	Other Scientific Research 2011-2012
3425.60	Others
3425.60.200	Assistance to other Scientific Bodies
3425.60.200.17	Human Resource Development
3425.60.200.17.07	Biotechnology Education and Training
3425.60.200.17.07.31	Grants-in-Aid General

4. Terms & Conditions:

- 4.1 The other terms and conditions governing this sanction are attached at Annexure- III.
- 4.2A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release. A format of the MoA is enclosed in Annexure-IV
- 4.3 The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.

- no International travel will be undertaken from the sanctioned project grant.
6. The Registrar, Karpagam University, Coimbatore, Coimbatore, Tamilnadu would be responsible for submission of Statements of Expenditure (S/E) and consolidated utilization certificates (U/Cs) to DBT from PIs in respect of grants released against this sanction order from time to time.
7. The accounts of grantee institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so by the sanctioning authority.
8. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/4237/2011-2012** dated **February, 03 2012**.
9. This sanction order has been noted at serial no. _____ in the Register of Grants.

Dr. Renu Swarup
(Advisor)

To,
The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi - 110 003.

Copy to:

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 The Registrar, Karpagam University, Coimbatore, Karpagam Academy of Higher Education
(Established Under Section 3 of UGC Act 1956)
Coimbatore - 641021, INDIA, Coimbatore - 641021, Tamilnadu
- 3 Dr. S Sudha, Associate Professor, Biotechnology, Karpagam University, Coimbatore,
Coimbatore, Coimbatore - 641021, Tamilnadu
- 4 Cash Section, DBT (2 copies).
- 5 Sanction Folder.
- 6 File Copy.

Dr. Renu Swarup
(Advisor)