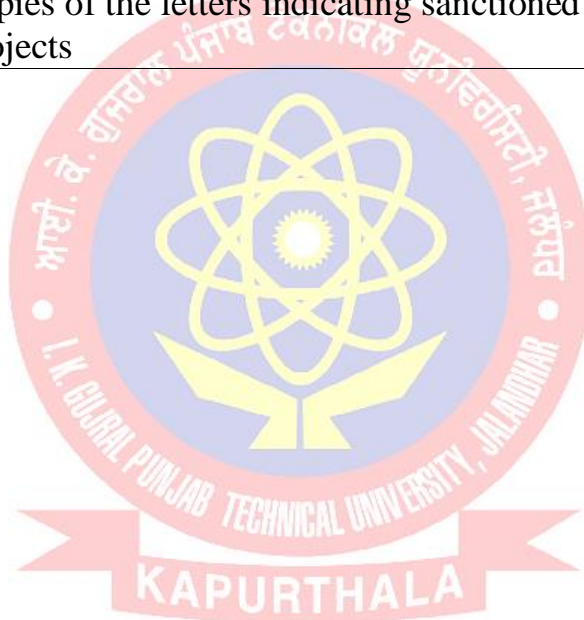


Supporting Documents

3.2.3

Number of Research Projects per Teacher Funded by Government and non-Government Agencies

Sl. No.	Documents Attached
1.	Details of Research Project
2.	Copies of the letters indicating sanctioned of Research Projects



Details of Research Project

Sr. No.	Department	Name of the Teacher	Project Title	Govt./Non Govt.	Sanctioning Agency
1	Chemical Sciences	Dr. Roopa	Fluorescence detection of activity and inhibition of his tone deacetylases	Govt.	DST-Sciences and Engineering Research Board (SERB), New Delhi
2	Physical Sciences	Dr. Neetika	Diffraction vector meson production at HERA using a Ads/QCD holographic	Govt.	DST-Sciences and Engineering Research Board (SERB), New Delhi
3	Physical Sciences	Dr. Rabia Pandit/ Dr. Hitesh Sharma	Study of interface magnetic interactions in La _{0.7} Sr _{0.3} MnO ₃ /A ₂ LnRuO ₆	Govt.	DST-Sciences and Engineering Research Board (SERB), New Delhi
4	Mechanical Engineering	Dr. Amit Bansal	Development and mechanical characterization of the microwave assisted biomedical coating on stainless steel	Govt.	DST-Sciences and Engineering Research Board (SERB), New Delhi
5	Mechanical Engineering	Dr. Amoljit Singh Gill	Fabrication of bio compatible graded porous metallic implants for facilitating drug delivery	Govt.	DST-Sciences and Engineering Research Board (SERB), New Delhi
6	Electronics and Communication Engineering	Dr. Amit Gupta/ Dr. Surinder Singh	Design of High-speed Multichannel Optical wireless communication system based on hybrid WDM FSO Transmission link	Govt.	DST-Sciences and Engineering Research Board (SERB), New Delhi
7	Hoshiarpur Campus	Dr. Kulwinder Singh	Mathematical Modelling of the atmospheric air pollution over severely polluted coal mines region in India using time series, wavelet analysis and soft computing techniques	Govt.	DST-Sciences and Engineering Research Board (SERB), New Delhi

**Copies of the Letters Indicating Sanctioned of
Research Projects**



FILE NO EE LO. 2010/0003.25
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(a statutory body of the Department of Science & Technology, Government of India)

5.8.5A, Lower Ground Floor
Vasant Square Mall
Plot No A, Community Centre
SCC to I B, Pocket 5, Vasant Kunj
New Delhi 110070

Dated: 14-Nov-2019

ORDER

Subject: financial Sanction of the research project titled "Fluorescence detection of activity and inhibition of his tone deacetylases" under the guidance of Dr. ROOPA, Department of Chemical Sciences, I.K. Gujral Punjab Technical University, Kapurthala, I.K. Gujral Punjab technical university, near pushpa Gujral science city, Ibban, kapurthala 144603, Kapurthala, Punjab 144603 - 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. 2912000/- (Rs. Twenty Nine Lakh Twenty Two Thousand Only) with break up of Rs. 580000/- under Capital (Non-recurring) head and Rs. 2132000/- under General (Recurring) head for a duration of 36 months. The items of expenditure to which the total allocation of Rs. 2912000/- has been approved are given below

S. No	Head	Total (in Rs.)
A	Non -recurring	
	Equipment -> Ultra Low Temperature Freezer -80 Degree Celcius	580000
A'	Total (Non-Recurring)	580000
B	Recurring Items	
1	Recurring - I : (Material)	648000
	Recurring - II : (Consumables, Travel, Contingencies)	1400000
	Recurring - III : Scientific Social Responsibility	20000
2	Recurring - IV : (Overhead Charges)	264000
B	Total (Recurring)	2332000
C	Total cost of the project (A' + B')	2912000

2. Sanction of the SERB is also accorded to the payment of Rs. 580000/- (Rupees Five Lakh Eighty Thousand only) under 'Grants for creation of capital assets' and Rs. 790500/- (Rupees Seven Lakh Ninety Thousand Five Hundred only) under 'Grants - in-aid General' to REGISTRAR, I.K. Gujral Punjab Technical University, Kapurthala, I.K. Gujral Punjab Technical University, Near Pushpa Gujral Science City, Ibban, Kapurthala -144603 being the first installment of the grant for the year 2019-2020 for implementation of the said research project.

3. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER). This release is being made under Empowerment and Equity Opportunities for Excellence in Science. (Task force Committee) (SC)

4. The Sanction has been issued to I.K. Gujral Punjab Technical University, Kapurthala, I.K. Gujral Punjab Technical University, Near Pushpa Gujral Science City, Ibban, Kapurthala-144603 with the approval of the competent authority under delegated powers on 11 November, 2019 and vide Diary No. SERB/F/6604/2019-2020 dated 13 November, 2019

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

6. Overhead expenses are due to 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 lakhs 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 for other appropriate

9. As per rule 211 of GFE, the accounts of the project shall be opened in compliance 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. 1370500/- (Rupees Thirteen Lakh Seventy Thousand Five Hundred only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per the bank details given below


 Head
 Department of Science & Technology
 Government of India
 Kapurthala - Punjab (INDIA)

PFMS Unique Code	PTU JAL
Account Name	PTU CRANT IN AID
Account Number	00461450000276
Bank Name & Branch	HDFC BANK LTD Kapurthala IBBANHDFC BANK LTD
IFSC/RTGS Code	HDFC0000046
Email id of A/C Holder	registrar@ptu.ac.in
Email id of PI	roopa_noel@yahoo.co.in

2 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

3 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 loan.

4 The project File no EEO/2019/UU0J25 may also be notified in all research communications arising from the above project with due acknowledgment of S.F.H.E

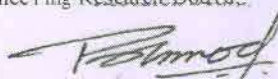
5 The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the flowsheet and salary of support staff in any beyond the duration of the project

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

7 The institute may refund any unspent balance to SERB by means of a Demand Draft favouring "PUNJAB FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi

8 The organization/institute/university should ensure that 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

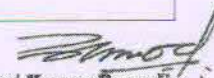
9 In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/projector funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST) Government of India


(Dr. Prainod Kumar Prasad)
Scientist C
pk.prasad@serb.gov.in

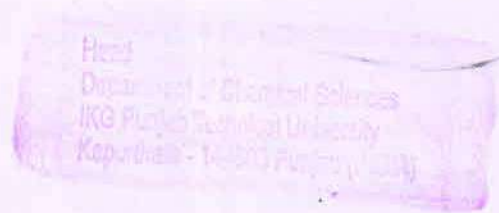
To,
Under Secretary
SERB, New Delhi

2 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. ROOPA Department of Chemical Sciences I.K. Gujral Punjab Technical University, Kapurthala, I.K. Gujral Punjab Technical University, near Pushpa Gujral Science City, Ibban, Kapurthala-144603, Kapurthala, Punjab-144603 Email: roopa_noel@yahoo.co.in Mobile: 91842777344 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit.....)
5.	REGISTRAR, I.K. Gujral Punjab Technical University, Kapurthala, I.K. Gujral Punjab Technical University, Near Pushpa Gujral Science City, Ibban, Kapurthala -144603 (Receipt or Grant may be intimated by name to the undersigned)


(Dr. Pramod Kumar Prasad)
Scientist C
pk.prasad@serb.gov.in




Head
Department of Chemical Sciences
I.K. Gujral Punjab Technical University
Kapurthala - 144603 Punjab, India

FILE NO. ECR/2017/001905
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(a statutory body of the Department of Science & Technology, government of India)

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

Dated 06-Jan-2020

ORDER

Subject: Research project entitled "Diffractive vector meson production at HERA using a holographic AdS/QCD approach" under the guidance of Dr. Neetika, Department of Physical Sciences, I.K. Gujral Punjab Technical University Kapurthala, I.K. Gujral Punjab Technical University, near pushpa gujral science city, ibban, kapurthala-144603, distt. kapurthala, india, Kapurthala, Punjab-144603.

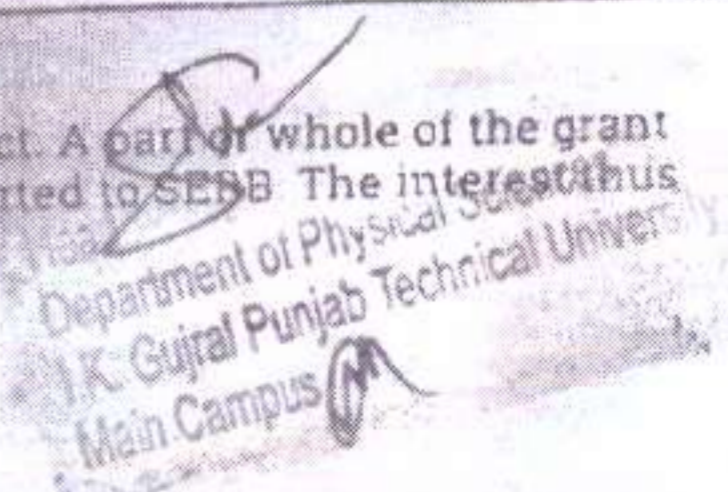
1. This is in continuation of SERB's sanction order No. "ECR/2017/001905" dated "20 September, 2018" of Science and Engineering Research Board (SERB).
2. Sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 130000/-** (Rupees One Lakh Thirty Thousand only) under 'Grants-in-aid General' to Deputy Controller Finance and Accounts, I.K. Gujral Punjab Technical University Kapurthala, I.K. Gujral Punjab Technical University, Near Pushpa Gujral Science City, Ibban, Kapurthala-144603, Distt. Kapurthala, India 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. 700702/-** (Rupees Seven Lakh Seven Hundred and Two only) (Recurring Rs. 400702 and Non-Recurring Rs. 300000) to I.K. Gujral Punjab Technical University Kapurthala, I.K. Gujral Punjab Technical University, Near Pushpa Gujral Science City, Ibban, Kapurthala-144603, Distt. Kapurthala, India 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 debitible to Fund for Science & Engineering Research (FSER) This release is being made under Early Career Research Award. (EC Physical & Mathematical Sciences) (GEN).
7. The Sanction has been issued to I.K. Gujral Punjab Technical University Kapurthala, I.K. Gujral Punjab Technical University, Near Pushpa Gujral Science City, Ibban, Kapurthala-144603, Distt. Kapurthala, India with the approval of the competent authority under delegated powers on 31 December, 2019 and vide Diary No SERB/F/8442/2019-2020 dated 02 January, 2020

8. The release amount of **Rs. 130000/-** (Rupees One Lakh Thirty Thousand only) (Recurring Rs. 130000 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	PTU-GRANT-IN-AID
Account Number	00461450000276
Bank Name & Branch	HDFC BANK HDFC BANK LTD. PLOT No. 911, G T ROAD, NEAR NARINDER CINEMA, JALANDHAR
IFSC/RTGS Code	HDFC0000046
Email id of A/C Holder	nitya@ptu.ac.in
Email id of PI	neetikaphy@gmail.com

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 shall be credited to the account of the Department of Physical Sciences, I.K. Gujral Punjab Technical University, Main Campus.


Head of Department
Department of Physics
I.K. Gujral Punjab Technical University Jalandhar,
Kapurthala, Punjab-144603


Department of Physical Sciences
I.K. Gujral Punjab Technical University
Main Campus

earned will be treated as credit to the institute to be adjusted towards further installment of the grant

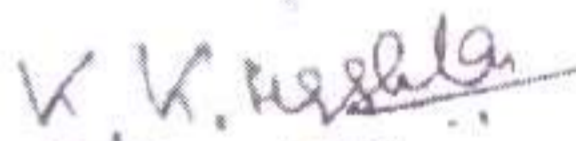
10. As per rule 211 of GFR the accounts of Grantee Institution shall be open to inspection by the sanctioning authority / audit whenever the institute is called upon to do so.

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.

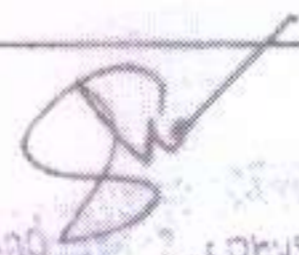

(Dr. Magesh K K)
Scientist
ms_pm@serbonline.in

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. Neetika Department of Physical Sciences I.K. Gujral Punjab Technical University Kapurthala, I.K. gujral punjab technical university, near pushpa gujral science city, ibban, kapurthala-144603, distt. kapurthala, india, Kapurthala, Punjab-144603 Email: neetikaphy@gmail.com Mobile: 917837667980
5.	Deputy Controller Finance and Accounts, I.K. Gujral Punjab Technical University Kapurthala, I.K. Gujral Punjab Technical University, Near Pushpa Gujral Science City, Ibban, Kapurthala-144603, Distt. Kapurthala, India


Head of Department
Department of Physics
I.K. Gujral Punjab Technical University Jalandhar,
Kapurthala, Punjab-144603


Head
Department of Physical Sciences
I.K. Gujral Punjab Technical University
Main Campus
(Dr. Magesh K K)
Scientist
ms_pm@serbonline.in

382

No. SR/WOS-APM-46/2018 (G)
 Government of India
 Ministry of Science & Technology
 Department of Science & Technology
 KIRAN DIVISION

Technology Bhawan
 New Mehrauli Road
 New Delhi-110016
 Dated 04.02.2021

ORDER


Sub: Financial approval of the project under Women Scientist Scheme A (WOS-A) entitled "Study of Interface magnetic interactions in La_{0.7}Sr_{0.3}MnO₃/A₂LnRuO₆ heterostructures for spintronics applications".


PI: Dr. Rabia Pandit, Department of Physical Science, I.K.G. Punjab Technical University, Jalandhar-144603, Punjab.

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of Rs 34,71,717/- (Rupees Thirty Four Lakh Seventy One Thousand Seven Hundred Seventeen only) for a duration of 3 years. The detailed breakup of the grant for General (Rs. 29,71,917/-) as well as Capital (Rs 4,99,800/-) Components are given below:

Sl. No.	Heads	1 st Year	2 nd Year	3 rd Year	Total
A.	Non-Recurring (Capital Items)				
	Equipments	4,99,800/-			4,99,800/-
	High Temperature Furnace				
B.	Recurring (General)				
	Fellowship for Ph.D	7,65,600/-	7,65,600/-	7,65,600/-	22,96,800/-
	@ Rs. 55,000/pm-HRA@16%				
	Consumables	90,000/-	89,000/-	88,953/-	2,67,953/-
	Contingencies	25,000/-	25,000/-	25,000/-	75,000/-
	*Travel	25,000/-	25,000/-	25,000/-	75,000/-
		85,722/-	85,722/-	85,720/-	2,57,164/-
C.	Overhead@8%				
D.	Total of Recurring Grant (B+C)	9,91,322/-	9,90,322/-	9,90,273/-	29,71,917/-
E.	GRAND TOTAL (A+D)	14,91,122/-	9,90,322/-	9,90,273/-	34,71,717/-

- Sanction of the grant is subject to the conditions as detailed in website www.online-wosa.gov.in
- The sanction of the President is also accorded to the release of Rs 9,65,322/- (Rupees Nine Lakh Sixty Six Thousand Three Hundred Twenty Two only) (excluding travel) Under "General Component" Registrar, Punjab Technical University, Jalandhar-144603, Punjab being the first instalment of the grant for the year 2020-2021 for implementation of the above mentioned project
- 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.
- 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


 Head of Department
 Department of Physics
 I.K.Gujral Punjab Technical University Jalandhar,
 Kapurthala, Punjab-144603


 Registrar
 Department of Physical Sciences Contd./2
 I.K.Gujral Punjab Technical University
 Main Campus

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/ 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 grant under the project shall be considered only on receipt of the said documents.

8. The Grantee Institute (GI) will maintain separate audited as per GFR 2017 Rule 230 (8) 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 2020-2021 and onwards interest 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 to reservation of SC/ST/OBC, if applicable.

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. The Principal Investigator under Women Scientist Scheme is not permitted to withdraw any emoluments/ salary/fellowship from any other project either supported by DST or by any other funding agency.

11. 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.

12. 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.

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 debitable to Demand No.87, Department of Science & Technology for the year 2020-21:

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 (Sub Head)
01 Disha Programme for Women in Science
68.01.31 Grants-in-aid General for the year 2020-2021(Voted)

(Previous: Disha Programme for Women in Science 3425.60.200.55.01.31)


15. The amount of Rs 9,66,322/- (Rupees Nine Lakh Sixty Six Thousand Three Hundred Twenty Two only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed The Registrar, Punjab Technical University, Jalandhar-144603, Punjab. The bank details for electronic transfer of funds through RTGS are given below:-

Institute name : Punjab Technical University, Jalandhar
Bank Name : HDFC Bank Ltd.
Account Number : 00461450000276
Branch : Kapurthala, IBBAN
IFSC code : HDFC0000046


Head of Department
Department of Physical Sciences
Punjab Technical University
Main Campus
Contd..13

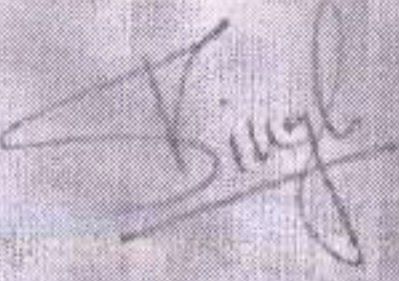
Head of Department
Department of Physics
I.K.Gujral Punjab Technical University Jalandhar,
Kapurthala, Punjab-144603


- 16. Goods (consumables/equipment) available in GeM portal are to be procured mandatorily online through GeM and PI will also follow DoE's guidelines for incurring expenditure under the different sub-head.
- 17. The project continuation beyond 31.03.2021 will be subject to appraisal and approval of the continuation of the Scheme under which these projects are funded as approved by DoE vide their OM No.42(02)/PF-II/2014, dated 06.08.2020.
- 19. The Grantee Institution is advised to start using EAT module and next release will be made only after mapping and following EAT modules by the grantee institution.
- 20. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 898 in the register of grants maintained in the KIRAN Division for scheme (WOS-A).
- 21. This issues with the concurrence of IFD Vide their Concurrence Dy.No/4525/2020-21 dated 08.01.2021.



 (Vandana Singh)
 Scientist-E

Copy for information and necessary action to:-

- 1. The Director of Audit (CW & M-II), AGCR Building, IP Estate, New Delhi-110 002.
- 2. Copy with two spare copies of the sanction to the Drawing & Disbursing Officer, DST, Cash Section
- 3. The Registrar, Punjab Technical University, Jalandhar-144603, Punjab.
- 4. Dr. Hitesh Sharma, Department of Physical Science, I.K.G. Punjab Technical University, Jalandhar-144603, Punjab.
- 5. Dr. Rabia Pandit, Department of Physical Science, I.K.G. Punjab Technical University, Jalandhar-144603, Punjab.
- 6. Pay & Accounts Officer, DST, New Delhi.
- 7. IFD, DST, New Delhi.
- 8. Sanction Folder.


 (Vandana Singh)
 Scientist-E


 Department of Physical Science
 I.K. Gujral Punjab Technical University
 Main Campus


 Head of Department
 Department of Physics
 I.K. Gujral Punjab Technical University Jalandhar,
 Kapurthala, Punjab-144603

No. SR/WOS-A/PM-46/2018 (C)
Government of India
Ministry of Science & Technology
Department of Science & Technology
KIRAN DIVISION

Technology Bhawan
New Mehrauli Road
New Delhi-110016
Dated 04.02.2021

ORDER

Sub: Financial approval of the project under Women Scientist Scheme A (WOS-A) entitled "**Study of interface magnetic interactions in La_{0.7}Sr_{0.3}MnO₃/ A₂LnRuO₆ heterostructures for**

PI: Dr. Rabia Pandit, Department of Physical Science, I.K.G. Punjab Technical University, Jalandhar-144603, Punjab.

In continuation of the Sanction Order No.SR/WOS-A/PM-46/2018(G) dated 04.02.2021 Sanction of the President is hereby accorded to the payment of Rs 4,99,800/- (Rupees Four Lakh Ninety Nine Thousand Eight Hundred only) as the Grant for "creation of capital assets" in the above mentioned project. The details of the equipments to be procured are given below.

Sl. No.	Heads	1 st Year	2 nd Year	3 rd Year	Total
A.	Non-Recurring (Capital Items)				
	Equipments:	4,99,800/-	-----	-----	4,99,800/-
	High Temperature Furnace				
	TOTAL	4,99,800/-	-----	-----	4,99,800/-

- 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. The interest earned / accrued should be reported to DST (financial year wise) while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the grantee organization, which will be adjusted towards future release of grant.
- 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.
- 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.
- If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate UC/UC has to be furnished for the released Capital head grant.
- 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.

Head of Department
Department of Physics
I.K.Gujral Punjab Technical University Jalandhar,
Kapurthala, Punjab-144603

Contd./2

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/ 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 grant under the project shall be considered only on receipt of the said document.
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 Grantee Institute (GI) will maintain separate audited as per GFR 2017 Rule 230 (8) 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 2020-2021 and onwards interest and other earnings, against released Grant shall be remitted to Consolidated Fund of India, (through Non-Tax Receipt Portal (NTRP), i.e. www.unirakosfi.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 to reservation of SC/ST/OBC, if applicable.
10. 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.
11. The expenditure involved is debitable to Demand No.87, Department of Science & Technology for the year 2020-21:
- 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 (Sub Head)
01 Disha Programme for Women in Science
68.01.35 Grant for creation of capital assets for the year 2020-2021 (Voted)
(Previous: Disha Programme for Women in Science 3425.60.200.55.01.35)
12. The amount of **Rs 4,99,800/- (Rupees Four Lakh Ninety Nine Thousand Eight Hundred only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed Registrar, Punjab Technical University, Jalandhar-144603, Punjab. The bank details for electronic transfer of funds through RTGS are given below:-

Institute name : Punjab Technical University, Jalandhar
Bank Name : HDFC Bank Ltd.
Account Number : 00461450000276
Branch : Kapurthala, IBBAN
IFSC code : HDFC0000046

13. Goods (consumables/equipment) available in GeM portal are to be procured mandatorily online through GeM and PI will also follow DoE's guidelines for incurring expenditure under the different sub-head.
14. The project continuation beyond 31.03.2021 will be subject to appraisal and approval of the continuation of the Scheme under which these projects are funded as approved by DoE vide their OM No.42(02)/PF-II/2014, dated 06.08.2020.
15. The Grantee Institution is advised to start using EAT module and next release will be made only after mapping and following EAT modules by the grantee institution.

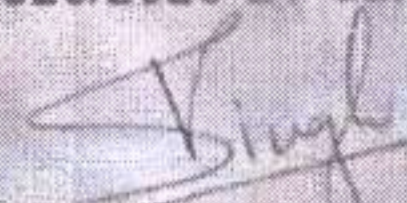


Head of Department
Department of Physics
I.K.Gujral Punjab Technical University Jalandhar,
Kapurthala, Punjab-144603

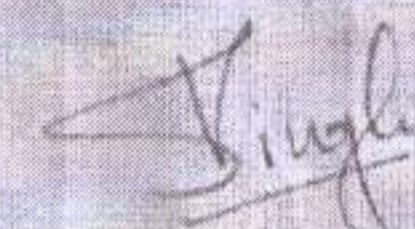



Department of Physical Sciences
I.K.Gujral Punjab Technical University
Jalandhar Campus
Contd./3


- 16. Capital grant should be utilized within two financial years from the date of project sanction.
- 17. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 898 in the register of grants maintained in the KIRAN Division for scheme (WOS-A)
- 18. This issues with the concurrence of IFD Vide their Concurrence Dy.No)/4526/2020-21 dated 08.01.2021.


 (Vandana Singh)
 Scientist-E

- Copy for information and necessary action to - . IP
- 1. The Director of Audit (CW & M-II), AGCR Building Estate, New Delhi-110 002
 - 2. Copy with two spare copies of the sanction to the Drawing & Disbursing Officer, DST, Cash Section.
 - 3. The Registrar, Punjab Technical University, Jalandhar-144603, Punjab.
 - 4. Dr. Hitesh Sharma, Department of Physical Science, I.K.G. Punjab Technical University, Jalandhar-144603, Punjab.
 - 5. Dr. Rabia Pandit, Department of Physical Science, I.K.G. Punjab Technical University, Jalandhar-144603, Punjab.
 - 6. Pay & Accounts Officer, DST, New Delhi.
 - 7. IFD, DST, New Delhi.
 - 8. Sanction Folder.


 (Vandana Singh)
 Scientist-E


 Head of Department
 Department of Physics
 I.K.Gujr Punjab Technical University Jalandhar,
 Kapurthala, Punjab-144603


 Department of Physical Science
 I.K. Gujral Punjab Technical University
 Main Campus

FILE NO. SRG/2019/00182
SCIENCE & ENGINEERING RESEARCH BOARD (SERB)
 (A statutory body of the Department of Science & Technology, Government of India)

S & SA, Lower Ground Floor
 Vasant Square Mall
 Plot No. A, Community Centre
 Sector-B, Pocket-5, Vasant Kunj,
 New Delhi-110073

Dated: 30-Dec-2019

ORDER

Subject: Financial Sanction of the research project titled "Development and mechanical characterization of the microwave assisted biomedical coatings on stainless steel" under the guidance of Dr. Amit Bansal (Mechanical Engineering, Inder Kumar Gujral Punjab Technical University Main Campus Kapurthala, I.K. Gujral Punjab technical university, Jalandhar - Kapurthala highway, VPO - Ibban, Kapurthala-144603, distt. Kapurthala phone: +91-1822-282533,35,83 email: registrar@ptu.ac.in, Kapurthala, Punjab-144603 - 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. 2979900/-** (Rs. Twenty Nine Lakh Seventy Nine Thousand Nine Hundred Only) with break-up of **Rs. 1873500/-** under Capital (Non-recurring) head and **Rs. 1106400/-** under General (Recurring) head for a duration of 24 months. The items of expenditure for which the total allocation of **Rs. 2979900/-** has been approved are given below:

S. No.	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Microwave furnace -> Microhardness tester -> Vertimet Pro Metallurgical Microscope with Envision 6.0 - Metallography Image Analysis Software	1873500
A'	Total (Non-Recurring)	1873500
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	744000
2	Recurring - IV : (Overhead Charges)	362400
B'	Total (Recurring)	1106400
C	Total cost of the project (A + B)	2979900

2. Sanction of the SERB is also accorded to the payment of **Rs. 1873500/-** (Rupees Eighteen Lakh Seventy Three Thousand Five Hundred only) under Grants for creation of capital assets and **Rs. 558200/-** (Rupees Five Lakh Fifty Eight Thousand Two Hundred only) under Grants-in-aid General to Registrar, Inder Kumar Gujral Punjab Technical University Main Campus Kapurthala, I.K. Gujral Punjab Technical University, Jalandhar - Kapurthala Highway, VPO - Ibban, Kapurthala-144603, Distt. Kapurthala Phone: +91-1822-282533,35,83 Email: Registrar@ptu.ac.in being the first instalment of the grant for the year 2019-2020 for implementation of the said research project.

3. The expenditure involved is debitible to Fund for Science & Engineering Research (FSER)
 This release is being made under Start-up Research Grant (EC Engineering Sciences)

4. The Sanction has been issued to Inder Kumar Gujral Punjab Technical University Main Campus Kapurthala I.K. Gujral Punjab Technical University, Jalandhar - Kapurthala Highway, VPO - Ibban, Kapurthala-144603, Distt. Kapurthala Phone: +91-1822-282533,35,83 Email: Registrar@ptu.ac.in with the approval of the competent authority under delegated powers on 26 December, 2019 and vide Diary No. SERB/F/8107/2019-2020 dated 26 December, 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. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1 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.

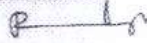
9. As per rule 211 of GER, the accounts of project shall be open to inspection by sanctioning authority/wedt whenever the institute is called upon to do so.

for Dy. Head
Department of Mechanical Engineering
I.K. Gujral Punjab Technical University
 (Main Campus) Kapurthala

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. 2431700/- (Rupees Twenty Four Lakh Thirty One Thousand Seven 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	PTUJAL
Account Name	PTU-GRANT-IN-AID
Account Number	0046145000275
Bank Name & Branch	HDFC BANK LTD HDFC BANK, IBBAN, IKG PTU, Jalandhar- Kapurthala Highway, Kapurthala 144603
IFSC/RTGS Code	HDFC0000046
Email id of A/C Holder	registrat@ptu.ac.in
Email id of PI	amit.bansal978@gmail.com

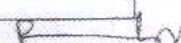
12. The institute will furnish to the SERB, separate Utilization certificate (UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each 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. SFG/2019/001182 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. 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, Third Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Amit Bansal Mechanical Engineering Inder Kumar Gujral Punjab Technical University Main Campus Kapurthala, I.K. Gujral Punjab technical university, jalandhar - kapurthala highway, vpo - ibban, kapurthala-144603, distt. kapurthala phone: +91-1822-282533,35,83 email: registrat@ptu.ac.in, Kapurthala, Punjab-144603 Email: amit.bansal978@gmail.com Mobile: 91828900931 (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, Inder Kumar Gujral Punjab Technical University Main Campus Kapurthala, I.K. Gujral Punjab Technical University, Jalandhar - Kapurthala Highway, VPO - Ibban, Kapurthala-144603, Distt. Kapurthala Phone: +91-1822-282533,35,83 Email: Registrat@ptu.ac.in (Receipt of Grant may be intimated by name to the undersigned)


(Dr. Ramesh Vijayan)
SCIENTIST-C


Department of Mechanical Engineering
I.K. Gujral Punjab Technical University
(Main Campus) Kapurthala


Department of Mechanical Engineering
I.K. Gujral Punjab Technical University
Kapurthala

FILE NO TAR/2019/000225
SCIENCE & ENGINEERING RESEARCH BOARD (SERB)
 (A statutory body of the Department of Science & Technology, government of India)

S & SA, Lower Ground Floor
 Vasant Square Mall
 Plot No. A, Community Centre
 Sector-9, Pocket-5, Vasant Kunj
 New Delhi-110070

ORDER Dated: 23-Nov-2019
 Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to **Dr. Amoljit Singh Gill**, I.K. Gujral Punjab Technical University Jalandhar, I.K. Gujral Punjab Technical University Jalandhar, Main Campus Jalandhar-Kapurthala Highway, Near Pushpa Gujral Science City, Ibban, District-Kapurthala, Punjab, India, Kapurthala, Punjab-144603 - under the mentorship of Dr. Anupam Agrawal, at Indian Institute of Technology, Ropar Nangal Road, Rupnagar - 140001. 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 08 November, 2019. 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

I.K. Gujral Punjab Technical University Jalandhar, I.K. Gujral Punjab Technical University Jalandhar, Main Campus Jalandhar-Kapurthala Highway, Near Pushpa Gujral Science City, Ibban, District-Kapurthala, Punjab-144603, Punjab, India, Kapurthala, Punjab-144603 (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, Ropar Nangal Road, Rupnagar - 140001 (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

- Sanction of the SERB is also accorded to the payment of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) to I.K. Gujral Punjab Technical University Jalandhar, I.K. Gujral Punjab Technical University Jalandhar, Main Campus Jalandhar-Kapurthala Highway, Near Pushpa Gujral Science City, IBBAN, District-Kapurthala, Punjab, INDIA. Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) to Indian Institute of Technology, Ropar Nangal Road, Rupnagar - 140001 being the first installment of the grant for the year 2019-2020 for implementation of the said research project.
- The expenditure involved is debitible to Fund for Science & Engineering Research (FSER) This release is being made under Teachers Associateship For Research Excellence (TARE), (Mechanical & Manufacturing Engineering & Robotics)
- The Sanction has been issued with the approval of the competent authority vide Diary No. SERB/F/6815/2019-2020 dated 20 November, 2019
- 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.
- 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 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.

I.K. Gujral Punjab Technical University Jalandhar, I.K. gujral punjab technical university jalandhar, main campus jalandhar-kapurthala highway, near pushpa gujral science city, ibban, district-kapurthala, pin-144603, punjab, india, Kapurthala, Punjab-144603 (Parent Institute):

PFMS Unique Code	PTU/JAL
Account Name	PTU-GRANT-IN-AID
Account Number	00461450000276
Bank Name & Branch	HDFC Bank Ltd HDFC Bank IBBAN, Ibban, Kapurthala, Punjab
IFSC/RTGS Code	HDFC0000046
Email address of PI	amol_gill@rediffmail.com
Email id of A/C Holder	registrar@ptu.sc.in
Email address of concerned officer	ms_tare@serbonline.in

Department of Mechanical Engineering
 I.K.T.E. P.T.U. Jalandhar Campus
 Kapurthala
I.K. Gujral Punjab Technical University
 (Main Campus) Kapurthala

The release amount of Rs. 3,25,000/- (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, Ropar Mangal Road, Rupnagar - 140001 (Host Institute):

PFMS Unique Code	IITPUN
Account Name	IIT Ropar KCSR Account
Account Number	38592963395
Bank Name & Branch	State Bank of India IIT Ropar, Rupnagar, Punjab-140001
IFSC/RTGS Code	SBIN0013181
Email address of PI	amol_gill@rediffmail.com
Email id of A/C Holder	ericson@iitrpr.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/2019/000225 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 is:-

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. Amoljit Singh Gill Mechanical Engineering I.K. Gujral Punjab Technical University Jalandhar, I.K. Gujral Punjab Technical University Jalandhar, Main Campus Jalandhar-Kapurthala highway, near Pushpa Gujral Science City, IBBAN, District-Kapurthala, pin-144603, Punjab, India. Email: amol_gill@rediffmail.com Mobile: 91998700421 (ii) Dr. Anupam Agrawal Indian Institute of Technology, Ropar Mangal Road, Rupnagar - 140001 (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) Vice Chancellor, I.K. Gujral Punjab Technical University Jalandhar, I.K. Gujral Punjab Technical University Jalandhar, Main Campus Jalandhar-Kapurthala Highway, Near Pushpa Gujral Science City, IBBAN, District-Kapurthala, Pin-144603, Punjab, INDIA. (ii) Director Indian Institute of Technology, Ropar Mangal Road, Rupnagar - 140001 (Receipt of Grant may be intimated by name to the undersigned)

Department of Mechanical Engineering
I.K. Gujral Punjab Technical University
(Main Campus) Kapurthala

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

FILE NO. SRG/2019/001182
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(a statutory body of the Department of Science & Technology, government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 14-Mar-2022

ORDER

Subject: Research project entitled "**Development and mechanical characterization of the microwave assisted biomedical coatings on stainless steel**" under the guidance of Dr. Amit Bansal, Mechanical Engineering, I.K. Gujral Punjab Technical University, Kapurthala, I.K. Gujral Punjab Technical University, Near Pushpa Gujral Science City, Ibban, Kapurthala-144603, PUNJAB-144603.


1. This is in continuation of SERB's sanction order No. "SRG/2019/001182" dated "30 December, 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. 273950/-** (Rupees Two Lakh Seventy Three Thousand Nine Hundred and Fifty only) under 'Grants-in-aid General' to Registrar, I.K. Gujral Punjab Technical University, I.K. Gujral Punjab Technical University, Near Pushpa Gujral Science City, Ibban, Kapurthala-144603 being the 2nd grant for the financial year 2021-2022 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. 1037753/-** (Rupees Ten Lakh Thirty Seven Thousand Seven Hundred and Fifty Three only) (Recurring Rs. 160545 and Non-Recurring Rs. 877208) to I.K. Gujral Punjab Technical University, I.K. Gujral Punjab Technical University, Near Pushpa Gujral Science City, Ibban, Kapurthala-144603 from FY 2020-2021 to FY 2021-2022 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 debit to **Fund for Science & Engineering Research (FSER)**. **This release is being made under Start-up Research Grant. (EC Engineering Sciences) (GEN).**
7. The Sanction has been issued to I.K. Gujral Punjab Technical University, I.K. Gujral Punjab Technical University, Near Pushpa Gujral Science City, Ibban, Kapurthala-144603 with the approval of the competent authority under delegated powers on **11 March, 2022** and vide Diary No. **SERB/F/10253/2021-2022** dated **12 March, 2022**.
8. The release amount of **Rs. 273950/-** (Rupees Two Lakh Seventy Three Thousand Nine Hundred and Fifty only) (Recurring Rs. 273950 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	PTUJAL
Account Name	PTU-GRANT-IN-AID
Account Number	00461450000276
Bank Name & Branch	HDFC BANK LTD HDFC BANK, IBBAN, IKG PTU, Jalandhar- Kapurthala Highway, Kapurthala 144603
IFSC/RTGS Code	HDFC0000046
Email id of A/C Holder	registrar@ptu.ac.in
Email id of PI	amit.bansal978@gmail.com

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.

Amit Bansal
Department of Mechanical Engineering
I.K. Gujral Punjab Technical University
(Main Campus) Kapurthala


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. Ramesh Vijayan)
 Scientist - D
 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. Amit Bansal Mechanical Engineering I.K. Gujral Punjab Technical University, Kapurthala , I.K. Gujral Punjab Technclal University., Near Pushpa Gujral Science City, Ibban, Kapurthala-144603,PUNJAB-144603 Email: amit.bansal978@gmail.com Mobile: 918289000931
5.	Registrar, I.K. Gujral Punjab Technical University, I.K. Gujral Punjab Technclal University., Near Pushpa Gujral Science City, Ibban, Kapurthala-144603



 (Dr. Ramesh Vijayan)
 Scientist - D
 drvramesh@serb.gov.in



 Department of Mechanical Engineering
 I.K. Gujral Punjab Technical University
 (Main Campus) Kapurthala

TARI 2021/000274

The updated RTGS details of the **Punjab Technical University , Jalandhar,**
Jalandhar, Punjab-144011 is as below:

PFMS Unique Code	PTUJAL
Account Name	PTU-GRANT-IN-AID
Account Number	00461450000276
Bank Name & Branch	HDFC BANK LTD G.T. ROAD JALANDHAR PLOT NO 911, G.T. ROAD JALANDHAR
IFSC/RTGS Code	HDFC0000046
Email id of A/C Holder	registrar@ptu.ac.in


डॉ. टी. थंगाराजू
वैज्ञानिक 'एफ'


(Amit Gupta)




Head
Department of Electronics & Communication Engineering
IK Gujral Punjab Technical University
Main Campus, Kapurthala (Punjab)-14

Dated: 10-Feb-2022

ORDER

Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to Dr. Amit Gupta, Punjab Technical University, Jalandhar, Jalandhar, Punjab-144011- under the mentorship of Dr Surinder Singh, at Sant Longowal Institute of Engineering and Technology (SLIET) Longowal Distt. Sangrur - 148106- 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. Rupees Eighteen Lakh Thirty Thousand only) for a duration of 36 months. The date of start of the project will be 08 December, 2021. 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

Punjab Technical University, Jalandhar, Jalandhar, Punjab-144011 (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

Sant Longowal Institute of Engineering and Technology (SLIET) Longowal Distt. Sangrur - 148106 (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 Punjab Technical University, Jalandhar, Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) to Sant Longowal Institute of Engineering and Technology (SLIET) Longowal Distt. Sangrur - 148106 being the first installment of the grant for the year 2021-2022 for implementation of the said research project.

3. The expenditure involved is debit 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/8247/2021-2022 dated 10 February, 2022

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:

Punjab Technical University, Jalandhar, Jalandhar, Punjab-144011 (Parent):

PFMS Unique Code	PTUJAL
Account Name	PTU-GRANT-IN-AID
Account Number	00461450000276
Bank Name & Branch	HDFC BANK LTD G.T. ROAD JALANDHAR PLOT NO 911, G.T. ROAD JALANDHAR
IFSC/RTGS Code	HDFC0000046
Email address of PI	amitguptaptu@gmail.com
Email id of A/C Holder	registrar@ptu.ac.in
Email address of concerned officer	ms_tare@serbonline.in

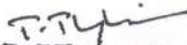
The release amount of Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Head
Department of Electronics & Communication Engineering
Punjab Technical University
Main Campus, Kapurthala (Punjab)-144603

Sant Longowal Institute of Engineering and Technology (SLIET) Longowal Distt. Sangrur - 148106 (Host) :

PFMS Unique Code	SLIET
Account Name	DIRECTOR SLIET LONGOWAL
Account Number	1688335346
Bank Name & Branch	CENTRAL BANK OF INDIA SLIET CAMPUS, CENTRAL BANK OF INDIA, SLIET CAMPUS, LONGOWAL, SANGRUR, PUNJAB INDIA
IFSC/RTGS Code	CBIN0283105
Email address of PI	amitguptaptu@gmail.com
Email id of A/C Holder	surinder_sodhi@sliet.ac.in
Email id of Mentor	Dr Surinder Singh

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/2021/000274 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 F
 msls@serb.gov.in

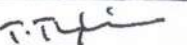
To,
 Under Secretary
 SERB, New Delhi

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.	<p>(i) Dr. Amit Gupta Electronics and Communication Engineering Punjab Technical University, Jalandhar, Jalandhar, Punjab-144011 Email: amitguptaptu@gmail.com Mobile: 919872223212</p> <p>(ii) Dr Surinder Singh Sant Longowal Institute of Engineering and Technology (SLIET) Longowal Distt. Sangrur - 148106</p> <p>(Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>(i) REGISTRAR, Punjab Technical University, Jalandhar</p> <p>(ii) Director Sant Longowal Institute of Engineering and Technology (SLIET) Longowal Distt. Sangrur - 148106</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>


 (AMIT GUPTA)




 (Dr. T Thangaradjou)
 Scientist F
 msls@serb.gov.in

Head
 Department of Electronics & Communication Engineering
 I.K. Gujral Punjab Technical University
 Main Campus, Kapurthala (Punjab)-146001

BP - 2020 - 21 - 2044

FILE NO. MTR/2020/000479
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: 11-Dec-2020

ORDER

Subject: Financial Sanction of the research project titled **Mathematical Modeling of the atmospheric air pollution over severely polluted coal mines region in India using time series, wavelet analysis, and soft computing techniques?** under the guidance of Dr. Kulwinder Singh, Department of Mathematics, IKG Punjab Technical University, Hoshiarpur Campus, Punjab Technical University, Jalandhar, Jalandhar, Punjab-144011 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned fellowship at a total cost of Rs. 6,60,000/- (Rs. Rupees Six Lakh Sixty Thousand only Only) for a duration of 36 months.

The items of expenditure for which the total allocation of Rs. 6,60,000/- has been approved are given below:

S. No	Budget Head	Amount	Total (in Rs.)
1	Research Grant	Rs. 2,00,000/- per annum (for a period of three years)	6,00,000
2.	Overheads	Rs. 20,000/- per annum	60,000
3.	Total Cost		6,60,000

2. Sanction of the SERB is also accorded to the payment of Rs. 2,20,000/- (Rupees Two Lakh Twenty Thousand only) to Punjab Technical University, Jalandhar being the first installment of the grant for the year 2020-2021 for implementation of the said research project.

3. The expenditure involved is debit to Fund for Science & Engineering Research (FSER) This release is being made under MATRICS - MATRICS Expert Committee

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. SERB/F/5438/2020-2021 dated 10 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. Purpose for which grants can be used are detailed at website (www.http://serb.gov.in/matrix.php).


7. Total expenditure for International travel cannot exceed Rs.2,00,000 of the overall budget.

8. 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.

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 release amount of Rs. 2,20,000/- (Rupees Two Lakh Twenty 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	PTUJAL
Account Name	PTU-GRANT-IN-AID
Account Number	00461450000276
Bank Name & Branch	HDFC BANK LTD HDFC BANK LTD, PLOT NO 911, G.T. ROAD JALANDHAR
IFSC/RTGS Code	HDFC0000046
Email address of PI	kulmaths@gmail.com
Email id of A/C Holder	registrar@ptu.ac.in
Email address of concerned officer	ms_ms@serbonline.in


DIRECTOR
IKGPTU HOSHIARPUR CAMPUS



11. The institute 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.

12. 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.

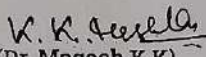
13. The File no. MTR/2020/000479 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

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

15. 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.

16. 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.

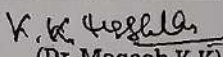
17. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.



(Dr. Magesh K K)
Scientist D
ms_ms@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. Kulwinder Singh Department of Mathematics, IKG Punjab Technical University, Hoshiarpur Campus Punjab Technical University, Jalandhar, Jalandhar, Punjab-144011 Email: kulmaths@gmail.com Mobile: 919876509195 (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, Punjab Technical University, Jalandhar (Receipt of Grant may be intimated by name to the undersigned)


(Dr. Magesh K K)
Scientist D
ms_ms@serbonline.in


DIRECTOR
IKGPTU HOSHIARPUR CAMPUS

