

19.068920; 72.855446

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Mahatma Phule Bhawan (Vidya Nagari), Kolivery Village,  
University of Mumbai, Vidya Nagari, Kalina, Santacruz East,

NCNNUM



Dated: 2 Jun 2017

To  
Dr. Atul Chaskar  
Associate Professor  
National Centre for Nanosciences and Nanotechnology  
University of Mumbai, Vidyanagari  
Kalina Campur Santacruz (E)  
Mumbai - 400 098

Grants-in-Aid for research project titled "Development of Chemosensor based portable device for on-site detection of buried landmines and explosives for military applications".

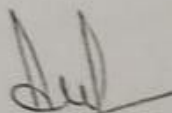
Approval of the DG (TM) is hereby conveyed for a grant of Rs. 46.125 Lakh (Rupees Forty Six Lakhs Twelve Thousand and five Hundred Only) to University of Mumbai, Vidyanagari for pursuing the research on the subject titled project by Dr. Atul Chaskar, Associate Professor, National Centre for Nanosciences and Nanotechnology, University of Mumbai, Vidyanagari, Kalina Campur Santacruz (E), Mumbai - 400 098 as Principal Investigator and Dr. Pravin Walke of the same institute as Co-Investigator.

2. The grant shall be spent as follows:

Expenditure on ↓ (Rs in lakh) during →	Year 1	Year 2	06 months	Line Total
a) Staff: JRF-03 @ Rs. 25000/- + HRA @ 30%	11.70	11.70	5.85	29.25
b) Equipment (including spares thereof)	-	-	-	-
c) Operation and maintenance	-	-	-	-
d) Expendables	5.50	5.00	-	10.50
e) Travel	0.75	1.00	1.00	2.75
f) Contingencies	0.35	0.35	-	0.70
g) Visiting Faculty	-	-	-	-
h) Procured services (other than (g)) and metered utilities	-	-	-	-
i) Institutional Overheads @ 10% of (a) only	1.17	1.17	0.585	2.925
Column Totals	19.47	19.22	7.435	46.125

Grand total: Rs. 46.125 Lakh (Rupees Forty Six Lakhs Twelve Thousand and five Hundred Only).

- The project will last for 02 years 06 months from the date of release of the first installment by the PCDA (R&D) and it will be governed by the terms and conditions given overleaf.
- The deliverables of the project are:-
  - Prototype development of portable chemosensor [detection level:1-10 ppb for Nitro as well as Peroxide based explosives].
  - To synthesize fluorophores with absorption spectrum in the range of 450-550 nm and emission spectrum of 500-700 nm for detection by unaided eyes.
- This sanction issues in exercise of powers conferred to Sl. No. 3.1 of GOI Ministry of Defence letter No. DRDO/DBFA/FA/83226/M/01/2031/D (R&D) dated 30<sup>th</sup> July 2010.
- The release of funds will be authorized by Accounts Officer of the Directorate of ER&IPR.
- The expenditure is debitible to Major Head 2080 - Defence Services - Research & Development, Minor Head 004 - Research/Research & Development, Sub-Head (C)- Extramural Research (EMR) Code Head 852/06.
- This is issued with the concurrence of IFA (R&D) New Delhi vide their U.O. No. IFA/R&D/New Delhi/1183/0208 dt. 23/05/2017.
- The sanction code is DGTM/ERIPR/GIA/17-18/0060/009 dt. 26/05/2017.
- Separate savings bank account to be maintained for the project.

  
(Sh. Anil Kumar Aggarwal)  
Director

Contd..

Dated: 21-Jun-2016

**ORDER**

Subject: Financial Sanction of the research project titled "An excellent alternative for solar energy conversion: Bandgap tuning of multiferroic oxide thin films" under the guidance of Dr. Pravin Sopanrao Walke, National Centre for Nanosciences and Nanotechnology, Mumbai University, Kalina, Vidya Nagari, Mumbai, MH, MAHARASHTRA, MUMBAI CITY-400098 - 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. 2558600/- (Rs. Twenty Five Lakh Fifty Eight Thousand Six Hundred Only) with break-up of Rs. 1000000/- under Capital (Non-recurring) head and Rs. 1558600/- under General (Recurring) head for a duration of Three years. The items of expenditure for which the total allocation of Rs. 2558600/- has been approved are given below:  
The following budget may be considered for Mumbai University, Kalina, Vidya Nagari, Mumbai, MH

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Spin Coater -> Sputtering system -> CVD	1000000
A'	Total (Non-Recurring)	1000000
B	Recurring Items	1326000
1	Recurring - A : ( Manpower, Consumables, Travel, Contingencies)	232600
2	Recurring - B : (Overhead Charges)	1558600
B'	Total (Recurring)	2558600
C	Total cost of the project (A' + B')	

- Sanction of the SERB is also accorded to the payment of
  - Rs. 1000000/- (Rupees Ten Lakh only) under 'Grants for creation of capital assets' and Rs. 519530/- (Rupees Five Lakh Nineteen Thousand Five Hundred and Thirty only) under 'Grants-in-aid General' to Vice-Chancellor, Mumbai University, Kalina, Vidya Nagari, Mumbai, MH being the first installment of the grant for the year 2016-2017 for implementation of the said research project.
- The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under Start Up Research Grant (Young Scientist). (EC Engineering Sciences)
- The Sanction has been issued to Mumbai University, Kalina, Vidya Nagari, Mumbai, MH with the approval of the competent authority under delegated powers on 16 June, 2016 and vide Diary No. SERB/F/1487/2016-17 dated 18 June, 2016
- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).
- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
- While providing operational flexibility among various subheads under head Recurring-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
- As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
- The release amount of Rs. 1519530/- (Rupees Fifteen Lakh Nineteen Thousand Five Hundred and Thirty only) will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by means of RTGS


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VPG Compound, Opposite Allahabad Bank, CST Road, Near  
Kalina University, Kalina, Santacruz East, Mumbai, Maharashtra

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Suhas equipment



transaction as per their Bank details given below.

Account Name	Finance and Account Officers, University of Mumbai.
Account Number	0239201021941
Bank Name & Branch	Canara Bank Tamarind lane branch, Crossly House, Gr. Floor, British Hotel Lane, Fort, Mumbai-400001.
IFSC/RTGS Code	CNRB0000239
Email id of A/C Holder	fao@fort.mu.ac.in
Email id of PI	shivshripsw@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.

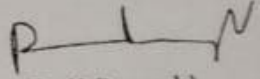
12. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the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

13. The project File no. YSS/2015/001937 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.

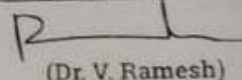
16. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

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

To,  
Finance & Budget Officer  
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. Pravin Sopanrao Walke National Centre for Nanosciences and Nanotechnology Mumbai University, Kalina, Vidya Nagari, Mumbai, MH, MAHARASHTRA, MUMBAI CITY-400098 Email: shivshripsw@gmail.com Mobile: 918380832183 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	Vice-Chancellor, Mumbai University, Kalina, Vidya Nagari, Mumbai, MH (Receipt of Grant may be intimated by name to the undersigned)

  
(Dr. V. Ramesh)  
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drvramesh@serb.gov.in