	Vasavi college of Engineering(A) **Ibrahimbagh,Hyderabad-31** **Department of Physics**

Academic Year 2024-25

List of Funded R & D Projects

Project Title	Funding Agency	Faculty Name	Sanctioned date	Duration of Project	Sanctioned Amount (Rs.)	Received Amount (Rs.)	Received Date	Status (Completed/ Ongoing
Development of High-Density Glasses for Enhanced Optical Properties and Radiation Shielding Applications	UGC-DAE Consortium for Scientific Research-Indore Centre	Dr R Nagaraju Assistant Professor	**Project Id:** CRS/2024-25/01/1428 08-04-2025	3 Years	60,000=00 Per Year	37,500=00	31-03-2025	Ongoing

Outlook

CRS Project approved with consumable and contingency.

From CRS Project <support@csruserportal.com>
Date Sat 01/03/2025 23:41
To R.Naga Raju <r.nagraju@vce.ac.in>

UGC-DAE CSR

CRS Program

Deadline: 07th March, 2025

MOST URGENT/ TOP PRIORITY

Dear **Dr. NAGARAJU RACHNA**,

With reference to your CRS project proposal **CRS/2024-25/1917** submitted at UGC-DAE CSR, this is to inform you that the proposal has been accepted with consumable, contingency and the usage of experimental facilities at UGC-DAE CSR.

In case you are willing to take up this project with consumable, contingency and the usage of experimental facilities at UGC-DAE CSR, please login to our user portal and submit your acceptance by **07th March, 2025**.

Guidelines:
https://www.csruserportal.com/data/Guidelines_for_CRS_Project.pdf

Note:In case your previous CRS project is about to complete please submit the SE/UC and progress report/completion report of the same.

CSR User Portal: https://www.csruserportal.com/
Contact Email: nlengay@gmail.com, mgupta@csr.res.in

With Thanks & Regards,

Narian Lengay
Administrative Officer-I

UGC-DAE Consortium for Scientific Research, Indore

To
The Principal
Vasavi College of Engineering (A)
Ibrahimbagh,
Hyderabad-500031

Date: 03.04.2025

Respected Sir,

(Through : HoD-Physics)

Subject: Intimation of Project Proposal Acceptance from UGC-CSR, Indore-reg.

***

I am pleased to inform you that my project proposal titled **"Development of High-Density Glasses for Enhanced Optical Properties and Radiation Shielding Applications"** has been accepted by the UGC-DAE-CSR (ID:CRS/2024-25/25/01/1428), Indore Centre. The project has been granted funding of ₹45,000 per year for consumables (procurement of necessary chemicals) and ₹15,000 per year for contingency, for a period of three years. This financial support will significantly contribute to the successful execution of the research work.

I kindly request your approval for the smooth implementation of the project.

Thank you for your cooperation.

Yours Sincerely,

3/4/25

Dr. R. Nagaraju
Assistant Professor,
Department of Physics, VCE
Staff ID: 2061

Forwarded
03/4/2025

Enclosures: OK

- Confirmation mail from UGC-DAE-CSR
- Accepted Project Proposal

OK
to execute the project as per UGC Norms

3/4/25

CRS/2024-25/1917

Chosen Centre: Indore

Project details	
Project title:	Development of High-Density Glasses for Enhanced Optical Properties and Radiation Shielding Applications
Type of Project:	In-house facilities of Indore Centre
Name(s) of Principal Collaborator from UGC-DAE CSR:	Dr. Praveen Kumar Velpula
Is there an ongoing CRS project of UGC-DAE CSR as a PI?	No
Financial support required from UGC-DAE CSR?	Yes
Require Fellowship for a Student?	
Consumable (MAX 50,000/- PER YEAR):	45000
contingency (MAX 15,000/- PER YEAR):	15000
Do you have any ongoing/submitted project with SERB/UGC/CSIR/BRNS or other funding agencies?	No
Personal Information	
Name of the Principal Investigator (PI):	Dr. Nagaraju Rachna
Date of Birth:	1981-08-12
Designation:	Assistant Professor
Affiliation:	Department of Physics, Vasavi College of Engineering
Official E-mail address:	r.nagraju@vce.ac.in
Postal address:	Vasavi College of Engineering , Ibrahimbagh, Hyderabad, Telangana-500031
Bank Details	
Beneficiary Name	Vasavi College of Engineerng
Account Number	30592200007467
Bank Name	Canara Bank
IFSC Code	CNRB0013059
Branch Name	Vasavi College of Engineering Branch, Ibrahimbagh, Hyderabad
Finance Authorities	
Account Officer's Name	Dr. S. V. Ramana
Account Officer's Email	principal@staff.vce.ac.in

Development of High-Density Glasses for Enhanced Optical Properties and Radiation Shielding Applications

1. Origin of the Proposal

Ionizing radiation has become a serious risk to human health and the integrity of the ecosystem. Therefore, there is a need to develop materials that can be used in a hostile environment and can act as a good radiation shields. Concrete and lead were the greatest options for shielding for a quite long time. The increasing demand for high-performance materials in both optical and radiation shielding applications necessitates the development of advanced glass systems. To block radiation efficiently, ideal shielding materials should be inexpensive, easily accessible, possess a high density and atomic number (Z). High-density glasses, particularly heavy metal oxides (HMOs) are attracting significant attention around the world due to the combination of their properties such as low melting temperatures, chemical durability, stability, a high dielectric constant, low phonon energy, a broad optical transmission window, high linear and nonlinear refractive indices.

With this motivation, the present proposal focuses on the development of environment friendly, high-density glasses that combine optical excellence with effective radiation shielding for applications in photonics, medical diagnostics, and nuclear technology.

2. Objectives

- To adopt melt-quenching technique for homogeneous and amorphous glass preparation.
- To ensure that these glasses can withstand temperature variations without losing structural integrity and possess low coefficient of thermal expansion (CTE).
- To target on the composition of glasses that are dense with high transparency, wide optical band gap, and tailored refractive index which are necessary for optical applications.
- To select a suitable composition which has above properties and also efficiently block the harmful ionizing radiations.

3. (a) Novelty and Preliminary work done by the principal investigator

There is a huge demand for low-cost, eco-friendly and commercial glasses which has spurred research on heavy metal oxide glasses (TeO_2, Sb_2O_3, Bi_2O_3 and Ga_2O_3)[1]. The unique quality of being both highly dense and optically transparent at the same time made these glasses to gain much attention in optoelectronics, nonlinear optical devices and in radiation shielding applications. From the literature, it is observed that the optical and shielding properties are improved when these heavy metal oxide compositions are doped with rare earths and transition metals [1,2]. In general, lead based glasses posses the above said properties and has been researched [2], which are then replaced by bismuth, tungsten, or tantalum as lead is considered to be toxic and has negative impact on environment.In recent years bismuth-based glasses are promising candidates which possess dual model in permitting visibility and absorbing radiation like gamma rays and neutrons. Due to highly polarizable nature of heavy metal cations (Bi^{3+}) and their small field strength, the refractive index is enhancedwhich made them available fornon-linear optical applications [1,2].On doping these glasses with transition metal oxides boost the chemical durability, thermal stabilityand reinforces their radiation-shielding properties without changing their optical properties.Hence, it is proposed to synthesize Bismuth based glasses by varying compositionsusingcost effective melt quenching technique.As prepared glasses are further characterized by various techniques such as XRD, FT-IR, Raman spectroscopy, UV-visible spectrophotometer. A study of a materials absorption of gamma and neutron radiations can be understood and evaluated usingshielding metrics, LAC, MAC including dose transfer factor (DT), radiation protection efficiency (RPE%). Collected results will eventually shed light on the best ideas and optimization conditions needed to increase the optical and shielding properties of the glasses to be used in various applications.

In the recent past, with the help of other collaborations, the PI have synthesized various combinations of glass systems and studied their optical and shielding properties and published the data in reputed journals [3-5]. Now, at present minimum facilities such as weighing balance and high temperature furnace are available in the department of PI to synthesize the glasses.

(b) Facilities required at UGC-DAE CSR: The following facilities are required at UGC-CSR Indore

- Structural studies (XRD, FT-IR, Raman)
- TG/DSC for thermal studies.
- Optical absorption, photoluminescence, nonlinear optical studies and also facilities available with Dr. Praveen Kumar Velpula, and the expertise of him in analysis of the data collected would be beneficial for the successful execution of the project.

4. Work Plan:

(a) Methodology

- It is proposed to synthesize bismuth-based lead-free glasses doped with such as ZnO, Nb_2O_5,WO_3, MoO_3, Sb_2O_3, Fe_2O_3 and $MnO_2$by melt-quench process.
- Study the structural role of heavy metal ions and their bonding in the glass network using spectroscopic techniques (e.g., XRD, Raman, FTIR).
- Explore the effect of varying glass-forming and glass-modifying oxides on key properties like optical bandgap, refractive index, and gamma-ray shielding.

(b) Characterization and study of the glasses

It is the goal of this study to examine optical and radiation shielding parameters by comparing with other materials and analysing the result for best properties. The optical parameterssuch as optical band gap (E_g), refractive index(n), transmission loss (T^{optical}) and reflection loss (R^{loss}) will be evaluated using optical absorption spectra. Nonlinear refractive index and nonlinear susceptibility of the glasses will be evaluated using Z-scan technique.

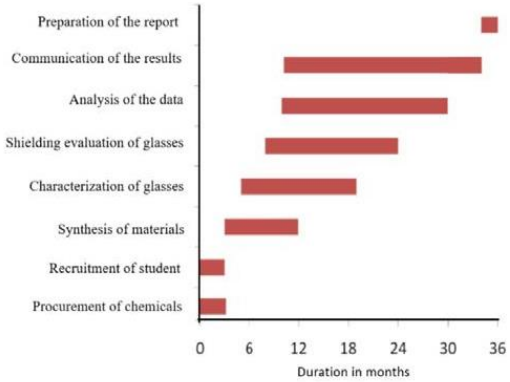
The Radiation shielding parameters will be evaluated withGamma ray attenuation Studiesand theoretically with the help of Phy-X/PSD software using the by following equations:

$$LAC = \mu = \frac{1}{x}\ln\left(\frac{I}{I_0}\right) \quad \& \quad \text{MAC} = \mu/\rho = \sum_i w_i(^{\mu}/_{\rho})_i \quad \& \quad RPE\% = \left(1 - \frac{I}{I_0}\right) \qquad (1)$$

(c) Expected outcome of the proposal

- Lead free compositions with various TMO dopants are prepared by reducing their melting temperature.
- Expected to achieve the refractive index > 2 and with tailored optical band gap to study optical properties.
- Targeted to achieve density values in the range of 5-8 gm/cc to block high energy and high dose (around 10 Gy/h) environments.

(d) Time Schedule of activities giving milestones through BAR diagram



References:

1. H.O. Tekin et al., JMR&T, 18 (2022) 231-244.
2. M.S. Al-Buriahi et al., Heliyon, 10 (2024) e40249.
3. **RNagaraju** et al.,Ceram. Int.,(In-press13/10/2024)
4. Ch Srinivasa Ramanujan, **R Nagaraju** et al., J. Electron. Mater, 52 (10) (2023) 6445-6459.
5. **R Nagaraju** et al., J. Mater. Sci.: Mater. Electron., 33 (18) (2022) 14397-14408.

Vasavi College of Engineering

(Autonomous)
Accredited by NAAC with A++ Grade
(Private Un-aided Non-minority Institution)
(Sponsored by Vasavi Academy of Education, Hyderabad)
(Affiliated to Osmania University, Hyderabad and Approved by AICTE, New Delhi)

DECLARATION

1. As a Principal Investigator (PI), I understand that it is my responsibility to carry out the Collaborative Research Scheme (CRS) project work as per rules and regulations of UGC-DAE CSR.
2. The scientific program of the CRS will be carried out jointly by me and a Principal Collaborator at UGC-DAE CSR. All scientific publications resulting from the CRS, will be communicated with each other's consent. Technical and scientific assistance from UGC-DAE CSR and DAE personnel will be acknowledged, either in the acknowledgements or in authorship.
3. Financial support received from UGC-DAE CSR will be acknowledged explicitly in all publications. Please add following sentence in the acknowledgement section of the manuscript, **""This work was partially/fully carried out using the facilities of UGC-DAE CSR"**
4. Progress reports, extension requests, conclusion documents, etc., will be submitted by me to the UGC-DAE CSR with the consent of the Principal Collaborator.
5. Copies of the publications, thesis, etc., resulting from the CRS will be sent to UGC-DAE CSR.

Place: HYDERABAD
Date: 26/11/2024

26/11/24
Signature of Principal Investigator

Vasavi College of Engineering Hyderabad 500031 (Autonomous)

26/11/24
Signature and Seal of Head of Department/University

PRINCIPAL
Vasavi College of Engineering
(Autonomous)
9-5-81, Ibrahimbagh,
Hyderabad-500031, Telangana State

Institute Bank Details

Details for Online Remittance

Beneficiary	:	Vasavi College of Engineering
Bank Account No.	:	30592200007467
IFSC Code No	:	CNRB0013059
Type of account	:	Savings
Bank Name	:	Canara Bank
Bank Branch	:	Vasavi College of Engg, Br., Hyderabad
		Telangana

PFMS Code : VASAVIENG

Name of the Institute: VASAVI COLLEGE OF ENGINEERING
(As per PFMS)

Officer Name : Dr. S. V. Ramana

Officer email. : principal@staff.vce.ac.in

List of Funded R & D Projects

Academic Year 2015-2016

Sl. No.	Name of the Faculty	Title of Project	Date of project sanctioned	Period/ Duration	Funding agency	Amount (Rs. In Lakhs)	No of faculty involved	Status
1	Dr. A S Sai Prasad	Synthesis and luminescence studies of NANO Phosphors	2015	3 Yrs	UGC- MRP (Minor Research Project)	3,15,000	**01**	Completed

Academic Year 2013-2014

Sl. No.	Name of the Faculty	Title of Project	Date of project sanctioned	Period/ Duration	Funding agency	Amount (Rs. In Lakhs)	No of faculty involved	Status
1	Dr. A S Sai Prasad	Thermo luminescence characterization of phosphors used in display devices for possible use in accident dosimetry.	2013	4 Yrs	AERB	5,47,388	**01**	Completed

परमाणु ऊर्जा नियामक परिषद

Atomic Energy Regulatory Board

भारत सरकार
GOVERNMENT OF INDIA

Committee for Safety Research Programmes

AERB/CSRP/Proj. No.52/01/R/2013/60 February 18, 2013

Dr. A.S.Sai Prasad
Dept. of Physics
Vaisnavi college of Engineering,
Hyderabad-500031

Sub: First Grant-in-Aid for the year 2012-2013 for the Safety Related Research Project titled "Thermo luminescence Characterization of Phosphors used in Display Devices for Possible use in Accident Dosimetry."

Principal Investigator: Dr. A.S.Sai Prasad
Project No. : AERB/CSRP/52/01/R

Sir,

1. The Committee for Safety Research Programmes (CSRP) of the Atomic Energy Regulatory Board has recommended the above project proposal for Grant-in-Aid from AERB in its meeting No. 53 held on February 07, 2013. The details of the funding are given below.

Sr. No.	Budget Head	Amount Estimated		
		I Year (Rs.)	II Year (Rs.)	III Year (Rs.)
1.	Staff Salary	Nil	Nil	Nil
2.	Equipment	2,50,000*	Nil	Nil
3.	Consumables	1,25,000**	Nil	Nil
4.	Contingencies (including travel)	25,000	50,000	50,000
5..	Overheads (15 % excluding contingencies)	56,250	Nil	Nil
	Total	4,56,250	50,000	50,000
	Grand Total = Rs 5,56,250/-			

* High Temperature Furnace 1350^{0}C

** Rare Earth Chemicals, Alumina crucibles, Beakers, Glassware etc.,and other required things to implement the project.

2. Chairman, AERB has accepted the recommendations of the CSRP.

परमाणु ऊर्जा नियामक परिषद
ATOMIC ENERGY REGULATORY BOARD

3. The CSRP booklet containing the Terms & Conditions governing the Grant-in-Aid is enclosed herewith. In accordance with the General Financial Rules (GFR), this Sanction will lapse if no payment in whole or part has been made during a period of 12 months from date of its issue. You are requested to go through the booklet for better understanding about the procedures followed by CSRP.

4. The grant for the year 2012-2013 will be paid in one installment after Member-Secretary, CSRP-AERB receives from you a claim (in duplicate) in the format shown in the Annexure to this letter.

5. As recommended by CSRP, Dr. M. P. Chougaonkar from RPAD, BARC and Shri Ashish Ramteke, RSD, Mumbai would be the Coordinators for the project.

6. You are requested to interact with the Coordinators on regular basis for effective implementation of the project. The Coordinators will monitor the progress of the project and also suggest any mid-way changes felt necessary for the project. The Principal Investigator should provide necessary cooperation to the Coordinators in this regard. All correspondence regarding the progress report and budget details should be sent to coordinators also along with member-secretary, CSRP.

7. Six-monthly progress reports on the project should be sent to the Coordinators and Member-Secretary, CSRP-AERB.

8. *The Statement of Accounts and Utisilation Certificate should be submitted to 'Pay & Accounts Officer, AERB' at end of each year of the project with a copy marked to Member-Secretary, CSRP.*

9. The receipt of this letter may please be acknowledged.

18/2/13
(Dr.A.Ramakrishna)
Member-Secretary
CSRP-AERB

Project Coordinators

1.	Dr. M. P. Chougaonkar	RPAD, BARC, Mumbai-400 094	Phone:022-25598633 Fax:022- 25519209 Email: mpckar@barc.gov.in
2.	Shri Ashish Ramteke,	RSD, AERB, Mumbai	Phone:022-25990651 Email: ashishramteke@aerb.gov.in

AERB:
Pay and Accounts Officer

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UNIVERSITY GRANTS COMMISSIONS -SOUTH EASTERN REGIONAL OFFICE
5-9-194, CHIRAG ALI LANE, IV FLOOR, A.P.S.F.C. BUILDING, HYDERABAD -500 001
Phones: 040 - 23204735, 23200208 FAX: 040 – 23204734, Website: www.ugc.ac.in, email: ugcsero@gmail.com

No.F MRP-6176/15 (SERO/UGC) **JANUARY 2015**

The Accounts Officer
UGC-SERO, Hyderabad

Linkno:6176. Comcode: APJN044

Sub: Release of Grants-in-aid to Minor Research Projects for the year 2014-2015 .
Sir / Madam,

The has reference to the Minor Research Project proposal submitted by DR. SAI PRASAD.A.S Department of PHYSICS of VASAVI COLLEGE OF ENGINEERING IBRAHIMBAGH HYDERABAD entitled **"SYNTHESIS AND LUMINESCENCE STUDIES OF NANO PHOSPHO RS "**. The subject expert, who evaluated the proposal, has recommended for financial assistance as detailed below.

Sl. No	Item	Amount Allocated (Rs.)	Amount Sanctioned as first installment (Rs.)
1.	Books & Journals	10000.	10000.
2.	Equipment	250000.	250000.
	Total	**260000.**	**260000.**
3.	Field work & Travel	20000.	10000.
4.	Chemical & Glass Ware	50000.	25000.
5.	Contingency (incl. Special Needs)	20000.	10000.
6.	Hiring Services	20000.	10000.
	Total	**110000.**	**55000.**
	Grand Total	**370000.**	**315000.**

1. I am further to convey the sanction of the University Grants Commission to the payment of Rs.**315000.** to the principal, VASAVI COLLEGE OF ENGINEERING,IBRAHIMBAGH,HYDERABAD as first installment (100% Non-Recurring and 50% Recurring grants) towards the above project.

CAPITAL (35)

Amount Sanctioned	General (76%) 3A Cap.Asit (35)	SC (16%) 3B Cap.Asit (35)	ST (8%) 3C Cap.Asit (35)
Rs.260000.	Rs.197600.	Rs.41600.	Rs.20800.

GRANTS IN AID (31)

Amount Sanctioned	General (76%) 3A GIA Gen.31	SC (16%) 3B GIA Gen.31	ST (8%) 3C GIA Gen.31
Rs.55000.	Rs.41800.	Rs.8800.	Rs.4400.

2. **The above approval is subject to the general conditions of grants prescribed by the UGC for this scheme.**
3. The amount of the grant shall be drawn by the Accounts Officer, SERO-UGC, Hyderabad and on the Grants-in-Aid bill and shall be disbursed to and credited to the Principal of the College ***through Electronic mode.*** ***The sanction is valid for payment to the college during the year 2014-2015.***
4. **In case the Principal Investigator is having ongoing Major/Minor Research Project OR has been transferred/left/retired from the college, or the terms and conditions of the scheme not accepted the released amount may be refunded to UGC-SERO, Hyderabad immediately**.
5. The grantee institution shall ensure the utilization of grants –in-aid for which it is being sanctioned/paid. in case of non-utilization /part utilization, **interest @ 10% per annum** as amended from time to time on utilized amount from the date of drawl to the date of refund as per provision contained in General Financial Rules of Govt. of India will be charged.
6. The assets acquired wholly or substantially out of UGC's grants shall not be disposed or encumbered or utilized for the purposes other than those for which the grant was given, without proper sanction of the UGC and should, at any time the college ceased to function, such assets shall revert to the UGC.

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7. The Principal investigator of the project is required to submit the First year progress report of the work done along with the documents 1) Annual Report of the Project as per Annexure-III 2) Utilization Certificate duly signed by the Principal Investigator, Principal & Chartered Accountant 3) Statement of Expenditure for the approved heads for the sanctioned amount as per Annexure-V duly signed by the Principal Investigator, Principal & Chartered Accountant.
8. The interest earned by the College / Institute on this grants-in-aid shall be treated as additional grant which may be shown in the Utilization Certificate / Statement of Expenditure to furnished by the grantee institution.
9. **The tenure of the project is 24 months from the date of implementation on receipt of the first installment grant.**
10. The guidelines of Minor Research Project have to be followed in toto.
11. The Grant is subject to the adjustment on the basis of Utilization Certificate I the prescribed proforma submitted by the University/Institution.
12. The University/Institution shall maintain proper accounts of the expenditure out of the Grants, which shall be utilized, only on the approved items of expenditure.
13. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to UGC as early as possible after the close of current financial year.
14. The college shall maintain a Register of Assets acquired wholly or substantially out of the grant in the prescribed proforma.
15. The College shall fully implement to Official languages Policy of Union Govt. and comply with the Official Language Act, 1963 and Official languages (use for official purposes of the Union) Rules, 1976 etc.,
16. The approval for the above has been received vide letter No.7-5/2014(SERO/MRP/RO) dated 26th December 2014 from UGC, New Delhi.
17. The Principal Investigator/Principal are hereby warned that they should not indulge in any nefarious activities pertaining to the grant of the on-going Minor Research Project. Any such complaints whatsoever in this regard should be lodged in this office of the undersigned for further appropriate action. This warning of the UGC should be taken seriously.

Yours faithfully,

/

(Dr.K.Samrajyalakshmi)
Joint Secretary

Copy to:

1. The Principal (Along with DD / Funds transferred through E-mode)
   VASAVI COLLEGE OF ENGINEERING
   IBRAHIMBAGH HYDERABAD -500031
2. √DR.. SAI PRASAD.A.S
   Dept. of PHYSICS
   VASAVI COLLEGE OF ENGINEERING
   IBRAHIMBAGH HYDERABAD -500031
3. The Dean/Director, College Development Council of affiliating University
4. The Commissioner /Director Collegiate Education, Government of TELANGANA
5. The Principal Accounts General (A & E)- Government of TELANGANA

(Mrs.Vamsika.C)
Education Officer

GAR Cap. Sl.No. /2014-2015
GAR GIA Sl.No. /2014-2015

Details of Payment by RTGS/NEFT to the College

The sanctioned grant of ***Rs. 315000.*** has been transferred to your college Account No **30592140000026** at Bank **SYNDICATE BANK, *IBRAHIMBAGH,HYDERABAD*** with IFS Code:SYNB0003059 through RTGS/Direct Credit (CBS to CBS). The Canara Bank, Abids, Hyderabad (CNRB 000 0606) has confirmed the above transfer of funds to your college through RTGS/Direct Credit transaction vide UTR confirmation No._____Dated_____

Your are requested to confirm the receipt of the above amount in your account by sending back the enclosed stamped receipt with in 7 days.

(R.Rayappa)
Accounts Officer

F.O.

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4. As recommended by CSRP, Shri Ashish Ramteke, RSD, AERB and Shri M. P. Chougaonkar, Ex-Head, RPAD, BARC, Mumbai are the Coordinators for the project.

5. You are requested to interact with the Coordinators on regular basis for effective implementation of the project. The Coordinators will monitor the progress of the project and also suggest any mid-way changes felt necessary for the project. The Principal Investigator should provide necessary cooperation to the Coordinators in this regard. All correspondence regarding the progress report and budget details should be sent to the Coordinators along with Member Secretary, CSRP.

6. Six-monthly progress reports on the project should be sent to the Coordinators and Member Secretary, CSRP, AERB.

7. The **Statement of Accounts and Utilization Certificate should be submitted to Pay & Accounts Officer, AERB' at end of each year of the project with a copy marked to Member Secretary, CSRP.**

8. The receipt of this letter may please be acknowledged.

29.10.15

(Smt. P. Shylamoni)
Member Secretary, CSRP, AERB

Copy to: Pay and Accounts Officer
: Project Coordinators

1.	Shri Ashish Ramteke	RSD, AERB	Phone: 022-2599 0651 Email: ashishramteke@aerb.gov.in
2.	Shri M. P. Chougaonkar	Ex-RPAD, BARC	Phone: 022- 2743 0015 Email: mpckar@hotmail.com

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LEPHONE : 91-22-2599 0100 / 0101
AX : 91-22-2599 0650, 2558 3230
/ WEBSITE : www.aerb.gov.in

नियामक भवन / NIYAMAK BHAVAN,
अणुशक्तिनगर / ANUSHAKTINAGAR,
मुंबई / MUMBAI-400 094.

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
परमाणु ऊर्जा नियामक परिषद
ATOMIC ENERGY REGULATORY BOARD
Resources and Documentation Division
Committee for Safety Research Programmes

D 9001:2008

AERB/CSRP/PROJ. No. 52/01/R/2015/ October 29, 2015

Dr. A.S.Sai Prasad
Dept. of Physics
Vasavi College of Engineering,
Hyderabad-500031

Sub: Renewal of Safety Research Project titled "Thermoluminescence Characterisation of phosphors used in display devices for possible use in accident dosimetry"

Principal Investigator (PI) and Institute : Dr. A.S. Sai Prasad, Vasavi College of Engineering, Hyderabad
Project No. : AERB/CSRP/52/01/R

Sir,

1. The Committee for Safety Research Programmes (CSRP) of the Atomic Energy Regulatory Board has recommended, in its meeting No. 62 held on September 15, 2015, renewal of the above project proposal for Grant-in-Aid by AERB. The details of the funding are given below:

S. No.	Budget Head	Amount Estimated (Rs.)
1.	Staff Salary	NIL
2.	Consumables	NIL
3.	Contingencies	50,000/-
4.	Overheads (15% excluding contingencies)	NIL
	Total	50,000/-
Total =Rs. 50,000/- (Rupees Fifty thousand only)		

2. Chairman, AERB has accepted the recommendations of the CSRP.

3. The grant for the year 2015-2016 will be paid in one installment after Member-Secretary, CSRP-AERB receives from you a claim **(in duplicate)** in the format shown in the Annexure.

LEPHONE : 91-22-2599 0100 / 0101
AX : 91-22-2599 0650, 2558 3230
/ WEBSITE : www.aerb.gov.in

नियामक भवन / NIYAMAK BHAVAN,
अणुशक्तिनगर / ANUSHAKTINAGAR,
मुंबई / MUMBAI-400 094.

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
परमाणु ऊर्जा नियामक परिषद
ATOMIC ENERGY REGULATORY BOARD
Resources and Documentation Division
Committee for Safety Research Programmes

D 9001:2008

AERB/CSRP/PROJ. No. 52/01/R/2015/ October 29, 2015

Dr. A.S.Sai Prasad
Dept. of Physics
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Hyderabad-500031

Sub: Renewal of Safety Research Project titled "Thermoluminescence Characterisation of phosphors used in display devices for possible use in accident dosimetry"

Principal Investigator (PI) and Institute : Dr. A.S. Sai Prasad, Vasavi College of Engineering, Hyderabad
Project No. : AERB/CSRP/52/01/R

Sir,

1. The Committee for Safety Research Programmes (CSRP) of the Atomic Energy Regulatory Board has recommended, in its meeting No. 62 held on September 15, 2015, renewal of the above project proposal for Grant-in-Aid by AERB. The details of the funding are given below:

S. No.	Budget Head	Amount Estimated (Rs.)
1.	Staff Salary	NIL
2.	Consumables	NIL
3.	Contingencies	50,000/-
4.	Overheads (15% excluding contingencies)	NIL
	Total	50,000/-
Total =Rs. 50,000/- (Rupees Fifty thousand only)		

2. Chairman, AERB has accepted the recommendations of the CSRP.

3. The grant for the year 2015-2016 will be paid in one installment after Member-Secretary, CSRP-AERB receives from you a claim **(in duplicate)** in the format shown in the Annexure.