Minor Research Projects

Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution.

Dr.T.S.SHYAM PRASAD

							152
		UNIVERSITY	GRANTS COMMISS	SIONS -SOUTH EASTERN		ALL OFFICE	2018
		5-9-194, CHIRA	G ALI LANE, IV FLC	OR A.P.S.F.C. BUILDING	HYDE	PARAD 500	0.01
Pho	nes	: 040 - 23204735, 2	23200208 FAX: 040 - 2	3204734, Website: www.ug	c.ac.in, e	mail: ugcsero	@gmail.e
No.	FI	MRP-7045/16 (SEI	RO/UGC)	Link No:7045.		J	anuary,2
The	Ac	counts Officer		Comcode: AP	SK015	25	JAN 2
UG	C-S	ERO, Hyderabad		UniqueID:AP	AN00007	7747	JAIN Z
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N						In st instant	2500
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Hyderabad immediately, failing which action will be initiated against the college for not adhering with the norms of UGC for the scheme.
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.

LinkNo.7045.

Yours faithfully

r.G.Srinivas) t Secretary

21

- 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.
- 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 college has to send the filled in Acceptance certificate within 15 days of receipt of this letter, else the college may return back the sanctioned amount to this office. Further if the conditions of the acceptance letter is not acceptable or applicable to the P.I/College, the sanctioned amount be refunded back to SERO-UGC, Hyderabad.
- 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 in 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.F.7-3/2016(SERO/MRP/RO) dated 6th September, 2016 from UGC, New Delhi.

Copy to:

2.

The Principal (Along with DD / Funds transferred through E-mode) GOVT. COLLEGE (M) ANANTAPURAMU, ANANTAPUR DIST. - 515001.

- Dr.T.S.SHYAM PRASAD
 - Dept. of POLITICAL SCIENCE GOVT. COLLEGE (M)
- ANANTAPURAMU, ANANTAPUR DIST. 515001.
- 3. The Dean/Director, College Development Council of affiliating University 4.
- The Commissioner /Director Collegiate Education, Government of ANDHRA PRADESH, 5. The Principal Accounts General (A & E)-
- Government of ANDHRA PRADESH

GAR Cap. Sl.No. 580 /2017-2018 GAR GIA SI.No. 913 /2017-2018

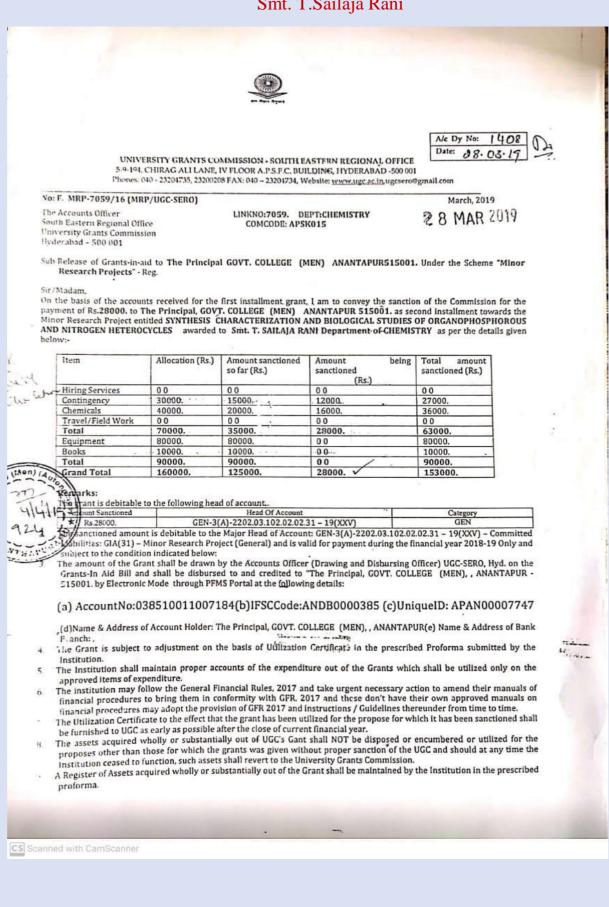
The sanctioned grant of Rs.162500. /- has been transferred to your college Account as mentioned at the requested to acknowledge the receipt of the above amount in your account by sending back the enclosed stamped receipt within 7 days.

(R.Ravappa) Accounts Officer

(G.K.Pasrija) Under Secretary

UNIVERSITY GRANTS COMMISSION -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. F.No:MRP-JO45 /16 (UGC-SERC) Date: 30 08 2021 Link No - 7045 The Principal CIDVI. (dlege (m) ANANTAPURAMU-SISOI AND HRA RADESH Bank Sub: UGC assistance to Minor Research Project approved to Dr./Mr./Mrs./Ms. T.S. ShyAM PRASAP, Dept. of Political Science entitled " Policy and implimedation of Right to Education - A. Case Study of And sport Dist. of A.P. -Reg. Sir/Madam, Based on the documents submitted by the College/Principal Investigator of the Project on the subject cited above, I am directed to inform you that the accounts of the project has been treated as Settled. Yours faithfully, RHang become (Dr.R.Manoj Kumar) Joint Secretary Copy to: DR.T.S. Shyam PRASAD DEPI. Of POLITICAL Science GOVT. College (m) ANDURA PRADESH Mang Kum Collega (Dr.R.Manoj Kumar) Joint Secretary Bp

Smt. T.Sailaja Rani



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UNIVERSITY GRANTS CORMISSION -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. Date: 20108/2021 Link No - 7059 The Principal MADA College (men) MADA POR - 986 106 Sub: UGC assistance to Minor Research Project approved to Dr./Mr./Mrs./Ms.1. Schoolding Law - 986 106 Sub: UGC assistance to Minor Research Project approved to Dr./Mr./Mrs./Ms.1. Schoolding Law - 986 106 Sub: UGC assistance to Minor Research Project approved to Dr./Mr./Mrs./Ms.1. Schoolding Law - 986 106 Sub: UGC assistance to Minor Research Project approved to Dr./Mr./Mrs./Ms.1. Schoolding Law - 986 106 Sub: UGC assistance to Minor Research Project approved to Dr./Mr./Mrs./Ms.1. Schoolding Law - 986 106 Sub: UGC assistance to Minor Research Project approved to Dr./Mr./Mrs./Ms.1. Schoolding Law - 986 106 Sub: UGC assistance to Minor Research Project approved to Dr./Mr./Mrs./Ms.1. Schoolding Law - 986 106 Sub: UGC assistance to Minor Research Project approved to Dr./Mr./Mrs./Ms.1. Schoolding Law - 986 106 Sub: UGC assistance to Minor Research Project approved to Dr./Mr./Mrs./Ms.1. Schoolding Law - 986 106 Sub: UGC assistance to Minor Research Project approved to Dr./Mr./Mrs./Ms.1. Schoolding Law - 986 106 Schoolding Law - 986 10			
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(Dr.R.Manoj Kumar) Joint Secretary	Copy to: Sased on the documents sub as been treated as Settled. Copy to: Sont. 1. Sontaja Ronti Sept. D. Cliemisiry Ipvi. College (MEN)		Yours faithfully, L'Taug Cura (Dr.R.Manoj Kumar)
(Dr.R.Manoj Kumar) Joint Secretary	Copy to: Sased on the documents sub as been treated as Settled. Copy to: Sont. <u>1. Sontaja Ranti</u> Sept. <u>D. Cliemisi</u> Ry <u>Ipvi. College (Mert</u>)		Yours faithfully, Yours faithfully, l'Maug Cuma (Dr.R.Manoj Kumar) Joint Secretary
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	Based on the documents sub on the subject cited above, I a has been treated as Settled. Copy to: Smt. <u>1. Smilaja Rani</u> Sept. <u>D.f. Chemisiky</u> Invi. <u>Callege (ment)</u> Anantapo <u>R-SES 106</u>		Manaj Kumar) (Dr.R.Manoj Kumar) Joint Secretary (Dr.R.Manoj Kumar) Joint Secretary

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-7059/16 (SERO/UGC)	Link No:7059.	January,2018
	Comcode: APSK015	2 5 JAN 2018
The Accounts Officer	Comcode: AFSKUIS	LJ Jim Long

UGC-SERO, Hyderabad

UniqueID:APAN00007747

A/c Dy No.

Date: 2511 2018

2164

Sub: Release of Grants-in-aid to Minor Research Projects for the year 2017-2018. Sir / Madam,

The has reference to the Minor Research Project proposal submitted by Smt. T. SAILAJA RANI Department of CHEMISTRY of "GOVT. COLLEGE (MEN)", ANANTAPUR entitled "SYNTHESIS CHARACTERIZATION AND BIOLOGICAL STUDIES OF ORGANOPHOSPHOROUS AND NITROGEN HETEROCYCLES". The subject expert, who evaluated the proposal, has recommended for f

Sl.	I assistance as detailed below. Item	Amount Allocated	Amount Sanctioned as first installment (Rs.)
No		(Rs.) 10000.	10000.
1.	Books & Journals	80000.	80000.
2.	Equipment	90000-	90000.
	Total		. 00
3.	Field work & Travel	- 40000.	. 20000.
4.	Chemical & Glass Ware	30000.	15000.
5.	Contingency (incl. Special Needs) Hiring Services	00	00
6.	Total	70000.	125000.
	Grand Total	160000.	in through the the

I am further to convey the sanction of the University Grants Commission to the payment of Rs.125000. to the principal, GOVT. COLLEGE (MEN)_ANANTAPUR as first installment (100% Non-Recurring and 50% Recurring grants) towards the above project.

	II I Chammeter	Category
Amount Sanctioned	- Head of Accounts	GEN
Rs. 90000.	35-[AP-MKP[50]-5[A]220203:1012020	GEN
Rs. 35000.	31-GIA-MRP(50)-3(A)2202.03.102.02.01	

The above approval is subject to the general conditions of grants prescribed by the UGC for this scheme. The sanctioned amount is debitable to the Head of Accounts 35-CAP-MRP(50)-3(A)2202.03.102.02.01 (General), 31-GIA-Ine sanctioned amount is debilable to the mean of Accounts 35-CAT-PAR(50)-5(A)220203.10202.01 (General), 31-GIA-MRP(50)-3(A)2202.03.102.02.01(General) and is valid for payment during the financial year 2017-18 only and the amount of the Grant shall be drawn by the Accounts Officer (Drawing and Disbursing Officer) UGC-SERO, Hyd. on the Grants-In Aid Bill and shall be disbursed to and credited to The Principal, GOVT. COLLEGE (MEN), ANANTAPUR by Electronic Mode through PFMS 2 3. Portal at the following details: (a)Name & Address of Account Holder: The Principal, GOVT. COLLEGE (MEN), , ANANTAPUR(b) Name & Address of Bank Branch:

(c) Account No: 038510011007184 (d)IFSC Code:ANDB0000385.

4. In case the Principal investigator is having ongoing Major/Minor Research Project OR has been transferred/left/retired from the college, the released amount of Rs125000./- may be returned to UGC-SERO, Hyderabad immediately, failing which action will be initiated against the College for not adhering with the norms of

Use for the scheme. I will be grantee institution shall ensure the utilization of grants -in-aid for which it is being sanctioned/paid, in case of non-initization /part utilization, interest @ 10% per annum as amended from time to time on utilized amount non-unitization / part unitization, interest of Av n per annum as annualed 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. a21,_

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				Ne Dy No: 1408	*
				Date: 08.03.19	77
5.9.19	CHIRAG ALI LANE,	IV FLOOR A.P.S.F.C. BUI	ASTERN REGIONAL OFFICE LDING, HYDERABAD -500 001		
Phones:	040 - 23204735, 2320020	08 FAX: 040 - 23204734, W	/ebsite: <u>www.ugc.ac.in</u> .ugcsero€	Igmail.com	
F. MRP-7059/16 (M	RP/UGC-SERO)			March, 2019	
e Accounts Officer ath Eastern Regional Of iversity Grants Commis derabad – 500 001	fice sion	LINKNO:7059. DI COMCODE: APSI		28 MAR 2019	
Release of Grants-in- Research Projects" -	aid to The Principa Reg.	I GOVT. COLLEGE (N	1EN) ANANTAPUR515001	. Under the Scheme "Minor	
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the basis of the accou	ints received for the	first installment grant,	I am to convey the sanctio	n of the Commission for the	
				cond installment towards the OF ORGANOPHOSPHOROUS	
D NITROGEN HETERO	OCYCLES awarded	to Smt. T. SAILAJA RA	NI Department of CHEMIS	TRY as per the details given	
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Item	Allocation (Rs.)	Amount sanctioned so far (Rs.)	Amount being sanctioned	Total amount sanctioned (Rs.)	
			(Rs:)		
Hiring Services Contingency	30000.	0 0	0.0	0 0 27000.	
Chemicals	40000.	20000.	16000.	36000.	
Travel/Field Work Total	00	35000.	0 0 28000.	0 0 63000.	3
Equipment	80000.	80000.	00	80000.	
Books	- 10000	10000.	.00	10000.	
Total	90000.	90000.	00 28000.	90000.	
Grand Total	160000.	125000,	28000. V	153000.	
Rentarks:					
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		and the second se		GEN	
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G.Kusuma Priya



Medium-Term Projects under INUP-i2i Program



List of selected participants for Medium-Term Project under INUP-i2i 2022 program

SI. No.	Name of the participants	Title of the proposal	Institute/Organisation
1.	Mandira Biswas	$BaTiO_3\mathchar`Ga_2O_3$ thin films as a gas-sensitive material for acetone detection	NIT Meghalaya
2.	Dariskhem Pyngrope	Heterojunction super schottky PdCoO2/b-Ga2O3 for UV detection	NIT Meghalaya
3.	Hiramoni Khatun	Development of piezoelectric nanogenerator to harvest energy from cardiac motion to power a pacemaker	Gauhati University
4.	Venkaiah Malapati	Silicon schottky photodetectors for telecom wavelength regime	VFSTR, Guntur, AP
5.	Kamalesh Tripathy	High-performance PBASE functionalized GFET fabrication for biosensing applications	IISER Bhopal, MP
6.	Tamanna Bhuyan	Targeting multicellular tumor spheroids with biogenic microbots	USTM, Meghalaya
7.	G. Kusuma Priya	Rare earth doped ${\tt BaTiO_3}$ bulk & thin film for electrical, opto- electronics, energy storage applications	Government College, Anantapur, AP
8.	Samuel Talari	Development and fabrication of luminescent nano electronic device (White LED) from lanthanide and Ce co-doped nanostructured thin films	GMR Institute of Technology, Andhra Pradesh
9.	Sujata Deb	Fabrication and Characterization of nano-electronic devices (FETs/Diodes) using zinc chalcogenides/reduced graphene oxide (rGO) nanocomposites	Royal Global University, Assam
10.	Rakesh Kumar Prasad	Plasmonically enhanced ultrasensitive fast photodetector based on mono-layered two-dimensional materials	BITS, Mesra, Ranchi, Jharkhand
11.	Veera Jogi Satya Nagendra Prasad	Biocompatible silver-ZrO ₂ -TiO ₂ nanocomposite coatings by using RF Magnetron Sputtering	Yogi Vemana University, Kadapa, AP



HINUP i2i



List of selected participants whose project proposals are approved under INUP-i2i 2021-22 program

S. No.	Name of the participants	Title of the proposal	Institute/Organisation
1.	Mandira Biswas	BaTiO ₃ -Ga ₂ O ₃ thin films as a gas-sensitive material for acetone detection	NIT Meghalaya
2.	Dariskhem Pyngrope	Heterojunction super schottky PdCoO2/b-Ga2O3 for UV detection	NIT Meghalaya
3.	Hiramoni Khatun	Development of piezoelectric nanogenerator to harvest energy from cardiac motion to power a pacemaker	Gauhati University
4.	Venkaiah Malapati	Silicon schottky photodetectors for telecom wavelength regime	VFSTR, Guntur, AP
5.	Manisha Kumari	Transparent electronic skin of ZnO nanowire	BITS, Meshra, Patna
6.	Pankaj Kumar Kushwaha	Transition metal-doped SnO2 for Perovskite Solar Cells	Mahatma Gandhi Central University, Bihar
7.	Kamalesh Tripathy	High-performance PBASE functionalized GFET fabrication for biosensing applications	IISER Bhopal
8.	Apurba Das	Electrical properties of biomaterials	DK College
9.	Tamanna Bhuyan	Targeting multicellular tumor spheroids with biogenic microbots	USTM, Meghalaya
10.	Ravi Chandra Gurrala	Green synthesis of Ag-Au bimetallic nanomaterials using andrographis paniculata leaf extract: colorimetric sensors applications, antibacterial & anticancer activity_	ANDHRA UNIVERSITY, VISAKHAPATNAM.
11.	Abhyavartin Selvam	Noninvasive point-of-care-testing of cervical cancer using microfluidic device	AMITY University, Noida, UP
12.	G. Kusuma Priya	Rare earth doped BaTiO3 bulk & thin film for electrical, opto- electronics, energy storage applications	Government College, Anantapu
13.	Shivakumar Chedurupalli	Magnet-free circulator based on micro electro mechanical system (MEMS) devices for full-duplex applications	CASEST, University of Hyderabad

PROJECT PROPOSAL UNDER INUP-i2i

PRELIMINARY STAGE

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

Rare Earth doped BaTiO₃ bulk & thin film for Electrical, Optoelectronics, Energy Storage Applications

Grande Kusuma Priya^{1,2}, R Padma Suvarna²

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Submitted By:

Name: Ms. G Kusuma Priya

Designation:

Lecturer

Department and Institute: Department of Physics and Government College(A) Anantapur

Broad subject area of the project: Rare earth doped of barium titanates, Z -scan technique, Nonlinear properties.

Type of project: Short-term (<3 months) (Tick the current one)

1. Background (< 200 words)

BaTiO₃, as a metal oxide has a specific characteristic such as physical hardness, stability and tunable optoelectronic properties makes an ideal choice in electronic as well as photonics applications. The various good characteristics makes it's functional in diverse fields of applications such as energy harvesting, magnetic memories, luminescence, electronic and in photonics. The characteristics of the BaTiO₃ (BT) might also be modified by different dopants or hybridization with other materials. Especially, by doping rare earth elements (RE) there is significance changing of their dielectric and optoelectronic characteristics. The rare-earth doped BT materials can be investigated in bulk and the thin films forms. The characterises of these samples' feasibility in electronic and photonic applications could be investigated. Since these materials has immense scope in energy harvesting applications. The challenges in this

Platinum coated Silicon	
substrates	

10. List of facilities required

- Chemical working area
- Pulse laser deposition technique
- Rf magnetic sputtering
- Structural properties: XRD, FESEM, TEM, UV-visible and FTIR analysis, Raman spectra
- Impedance analysis
- Microwave dielectric properties using vector network analyzer and SPDR technique.
- Dc-probe station
- Keithley Parameter Analyzer.

11. Estimated budget

Reagent	Purity	Quantity	No. of items	Rate per quantity (Rs.)	Total rate (Rs.)
BaCO ₃	99.999% trace metals basis	100 gm	5	34,185	1,70,925
TiO ₂	>95	1000gm	1	90,000	90,000
Sm ₂ O ₃	99+	10 gm	2	16,160	32,320
Ln ₂ O ₃	99.99	100 gm	1	19,470	19,470
Gd ₂ O ₃	99.99	5 gm	2	14,408	28,816
Eu ₂ O ₃	99.999	5gm	1	34,380	34,380
Quartz Substrates	High purity	10cm X 10cm	3	€35.50 (29,150.03)	87,450
Platinum Coated Silicon				As per stock. Approx.	50,000
					5,18,000



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Date: 14.10.2022

ATTENDANCE-CUM-RELIEVING CERTIFICATE

This is to certify that Ms. G Kusuma Priya Lecturer in Physics Government College(A) Anantapur has executed the short-term project on "Rare Earth doped BaTiO₃ bulk & thin film for Electrical, Optoelectronics, Energy Storage Applications" sponsored by Ministry of Electronics and Information Technology (Meity), Govt. of India under INUP-i2i program, organized by Centre for Nanotechnology, Indian Institute of Technology Guwahati during the period from 15-07-2022 to 15-10-2022 and she is relieved on the evening of 15-10-2022.

Forwarded by

14/10/22

Dr. Akshai Kumar Alape Seetharam Associate Professor & Head Center for Nanotechnology, IIT Guwahati.