

Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal's



INDIRA GANDHI KALA MAHAVIDYALAYA

Ralegaon, Dist- Yavatmal, Maharashtra

Affiliated to

Sant Gadge Baba Amravati University, Amravati



2nd Cycle

Assessment & Accreditation by NAAC

Criterion-III

Research, Innovations and Extension

Q_nM 3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)



Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal's Yavatmal

INDIRA GANDHI KALA MAHAVIDYALAYA, RALEGAON
DIST. - YAVATMAL (445402)

(Affiliated to Sant Gadge Baba Amravati University College Code-490)
(DDO Code - 06610100121)

President

Hon' Prof. Shri Vasantao C. Purke
Mob No. - 9920997275

Website-www.igkmralegaon.org
E-mail - igkm490@gmail.com

Principal

Dr. Santosh V. Agarkar
Mob. No-9373778210

Dis. No. :-


Date :- 17/07/2024

Declaration

The information, reports, true copies of the supporting documents, numerical data, etc. related to the NAAC process furnished in this file is verified by IQAC and found correct. Hence this certificate.


Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon




PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

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Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal's
Indira Gandhi Kala Mahavidyalaya,
Ralegaon - 445402, Dist. Yavatmal (M.S.)

Affiliated to Sant Gadge Baba Amravati University

Website - www.igkmralegaon.org

E-mail - igkm490@gmail.com



SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
&
RAJIV GANDHI SCIENCE & TECHNOLOGY COMMISSION, GOVT. OF
MAHARASHTRA, MUMBAI

File No.SGBAU/7-D/DPP-RGSTC-30/2022

Date : 29/2/2023

Sanction Order

Sub : Research Project proposal entitled "STUDY, DESIGN AND DEVELOPMENT OF METAL OXIDE (IRON OXIDE AND TITANIUM OXIDE) AND ITS NANO COMPOSITE STRUCTURE AS ELECTRODE MATERIAL FOR HIGH ENERGY SUPERCAPACITOR" Mr. Kapil D. Jagtap, Head & Asstt. Professor, Deptt. Of Physics, Indira Gandhi Kala Mahavidyalaya, Ralegaon under the RGSTC Scheme "Assistance for S & T Applications through University System" at Sant Gadge Baba Amravati University, Amravati.

On the recommendation of the RGSTC Project Appraisal Committee (PAC) constituted by Sant Gadge Baba Amravati University, Amravati, I am pleased to convey the approval and Grant-in-aid for Research Project under the RGSTC Scheme for the captioned project for 2 years beginning from the date and financial approval from year 2022-23 with total amount of Rs.3,80,000/- (Rs. Three lakh Eighty thousand only) for the project as under:

Name of the Item	Amount Allocated	Grant now Being sanctioned (1 st Instalment)	Grant Being sanctioned (II nd Instalment)
Equipment	93,000/-	93,000/-	--
Consumable	1,00,000/-	50,000/-	50,000/-
Travel	95,000/-	40,000/-	55,000/-
Other Cost	92,000/-	42,000/-	50,000/-
Total	3,80,000/-	2,25,000/-	1,55,000/-

1. The College/ institute will acknowledge receipt of payment immediately if the terms & conditions are acceptable, as per guidelines. The acceptance Certificate in prescribed format attached as Annexure-I be sent to the undersigned within 8 days from the issue of the award letter, failing which, the project will be treated as cancelled.

2. Considering the above, Registrar, SGBAU is pleased to sanction and release an amount of Rs.2,25,000/- (Rs. Two lakh twenty five thousand only) as the first instalment to the Institute for the implementation of the project. The D.D/online RTGS shall be drawn and issued in favour of Principal/Director of concerned Institute.

3. Principal Investigator should ensure that the statement of expenditure & utilisation certificate to the effect that the grant has been utilised for the purpose for which it has been sanctioned shall be furnished to the University in time in the prescribed format attached as Annexure-II & Annexure-III respectively.

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29/3/23

4. The institute should constitute a review group for monitoring progress, consisting of the proposed downstream partners who should provide inputs along with the periodic progress of project. The review group should be decided in consultation of SGBAU.

5. The project status will be reviewed, in terms of objectives and achievements, at the end of 1st year after the receipt of the sanctioned amount, and thereafter every 6 monthly review will be taken. The institute should submit the annual progress report along with utilization certificate and the statement of Expenditure to enable SGBAU to complete the reviewing process.

6. Any interest of grant received from bank, must be treated as 2nd instalment amount and it is requisite to produce bank interest statement along with utilization certificate.

7. The assets acquired wholly or substantially out of RGSTC grant 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 University and should, at any time College ceased in function such assets shall revert to the University.

8. A Register of assets acquired wholly or substantially out of the grant shall be maintained by the College in the prescribed form.

9. The grantee college shall ensure the utilization of grant-in-aid for which it is being sanctioned/paid. In case non-utilization / part utilization, the simple interest @ 10% per annum as amended from time to time on unutilized amount from the date of drawal to the date of refund as per provisions contained in General Financial Rules of Govt. of India will be charged.

10. The interest earned by the College on this grants-in-aid shall be treated as additional grant and may be shown in the Utilization Certificate /Statement of Expenditure to be furnished by grantee College.

11. The Principal Investigator should finish the project within the limit of total sanctioned amount. Additional amount over & above the sanctioned amount if required should be borne by the college.

12. It is mandatory to obtain a copyright or a patent or to publish atleast one research paper in science citation. Index-Expanded(SCIE) Journal as a outcome of the project.

13. Whenever any research work is published by the Principal Investigator he/she should acknowledge as the work is financially supported by "Sant Gadge Baba Amravati University, Amravati", under RGSTC Scheme.

Jull

Dr Tushar Deshmukh
Registrar,

Sant Gadge Baba Amravati University

Received
on 01.04.2023

Agarkar
01.04.2023

Copy forwarded with complement for information and necessary action to:

1. Principal, Indira Gandhi Kala Mahavidyalaya, Ralegaon
2. Hon'ble Vice Chancellor, Sant Gadge Baba Amravati University, Amravati.
3. Registrar, Sant Gadge Baba Amravati University, Amravati.
4. Finance & Accounts Officer, Sant Gadge Baba Amravati University, Amravati.
5. Mr. Kapil D. Jagtap, Hcad & Asstt. Professor, Deptt. Of Physics, Indira Gandhi Kala Mahavidyalaya, Ralegaon
5. RGSTC file.

ISM
Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon



Agarkar
PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Seshaasai (M) CTS - 2010



शंत गाडगे बाबा अमरावती विभागीय शाखा, अमरावती - 444 602.
Sant Gadge Baba Amravati University Br. Amravati - 444 602.
IFSC No. MAHB0001391

Valid For Three Months From The Date Of Issue

Payable Only PRINCIPAL, INDIRA GANDHI ART COLLEGE, RALEGAON.

DDMMYY

Rupees रुपये Two Lacs Twenty Five Thousand Only

Of Bearer

खाता सं. / A/C No. 20115413704

CBS

अदा करें।

₹

***225000.00

For SANT GADGE BABA AMRAVATI UNIVERSITY
(GOVT GRANT)

VOID

PAYABLE AT PAR AT ALL BRANCHES

Authorised Signatory

Authorised Signatory

Please sign above

10101204 444014001 000300 10

Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon



Principal
PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Progress Report

(Period- 01/04/2023 To 31/03/2024)

Title of the Project : Study, Design and Development of Metal Oxides (Iron Oxide, Titanium Oxide) and its nano-composites structure as electrode material for high energy supercapacitor.

Principal Investigator : Mr. Kapil D. Jagtap


Co- Investigator : Mr. Bhushan H. Bhatti, Mr. Amol S. Lihitkar

Order no. and date : File No.: SGBAU/7-D/DPP-RGSTC- 30/2022 on 29/03/2022.

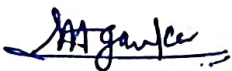
The project entitled “**Study, Design and Development of Metal Oxides (Iron Oxide, Titanium Oxide) and its nano-composites structure as electrode material for high energy supercapacitor**” is undertaken to develop a high performing, low cost and eco-friendly energy storage devices. To achieve this, in the present project work carbon material (**graphene**) and **metal oxides** were employed. The exhausted survey of literature conducted to identify the efficient super capacitive material, eco-friendly methods of synthesis and suitable testing techniques. In the present project work, the Chemicals and materials purchased from reputed companies of high purity and analytical grade. The equipment also procured from the reputed manufacturer in order to get good experimental result. The graphene from graphite rods by using chemical exfoliation methods were synthesized. Then after the metal oxides such as titanium oxide and ferrous oxide were synthesis by co-precipitation method and followed by conversion into nanoparticles. The graphene and nanoparticle of metal oxides were used for the preparation of Nano composite material. This composite material was used for the preparation of electrode which is the part of supercapacitor device. The composite material in the form of electrode were send to the laboratory of national repute for characterization. The above mentioned work was considered in the first phase of project that is 1st to 12th month duration as mentioned in the project proposal. The result of experimental work are found to be satisfactory.



Principle Investigator
Mr. Kapil D. Jagtap
Assistant Professor & HOD Physics
Indira Gandhi Kala Mahavidyalaya
Railegaon Dist. Yavatmal



30/04/24
आयुक्त शिक्षक
संत गाडगे बाबा ज्ञानरावली विद्यापीठ



Principal
PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Railegaon Dist. Yavatmal

Statement of Expenditure

Statement showing grants received from SantGadge Baba Amravati University under Rajiv Gandhi Science & Technology Commission, Mumbai and the Expenditure incurred for the period 01.04.2023 to 31.03.2024 and requirement of funds upto 31.03.2024 for the project entitled "Study, Design and Development of Metal Oxides (Iron Oxide, Titanium Oxide) and its nano-composites structure as electrode material for high energy supercapacitor."

Item	Unspent balance Carried forward previous year	Grant received from University under RGSTC during theyear 2023-2024	Other receipts/ interest earned, if any, on the grant received	Total of Col. (2+3+4)	Expenditure incurred from 01.04.2023 to 31.03.2024	Balance (5-6) as on 31.03.2024	Requirement of funds for Financial year 2024-2025
1.	2.	3.	4.	5.	6.	7.	8.
Equipment	0	93000	2897	95897	90050	5847	0
Consumable/ Chemicals	0	50000	0	50000	48467	1533	51533
Travel/ Hiring	0	40000	0	40000	0	40000	95000
Other Cost	0	42000	0	42000	25954	16046	66046

Principal Investigator
23/04/2024

Mr. Karan D. Jagtap

Assistant Professor & HOD Physics

Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Chartered Accountant



Signature of Chartered Accountant

Signature of Head of Institution

Head of Institution

Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

CON :- 24108564BJT2YJP9860

UTILIZATION CERTIFICATE


Financial year 1st April, 2023 to 31st March, 2024.



1.	Title of the Project	Study, Design and Development of Metal Oxides (Iron Oxide, Titanium Oxide) and its nano-composites structure as electrode material for high energy supercapacitor
2.	Name of the College/ Institute	Indira Gandhi Kala Mahavidyalaya, Ralegaon Dist. Yavatmal
3.	Name of Principal Investigator	Mr. Kapil D. Jagtap
4.	SantGadge Baba Amravati University's sanctionorder No. and date of sanctioning the project	File No.: SGBAU/7-D/DPP-RGSTC-30/2022 on 29/03/2022
5.	Period of project	2 Years
6.	Amount received from University under RGSTC during the financial year (Pl. give the No. & dates of sanction order showing the amount paid)	2,25,000 /- SGBAU/7-D/DPP-RGSTC- 30/2022 on 29/03/2022
7.	Interest / other receipts, if any, on the RGSTC Funds	2897 /-
8.	Total amount that was available for the expenditure during the financial year afterrevalidation (Sr.No.6 & 7)	227897 /-
9.	Total expenditure in financial year	164471 /-
10.	Balance amount available at the end of the financial year	63426 /-
11.	On closure, unspent balance refundedto University, if any, (Please give details of cheque No. and Date)	-

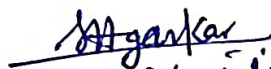
Certified that the amount of Rs.- 164471 /- (Rs.in words) one lac sixty four thousand four hundred seventy one rupees only mentioned against column No.9 has been utilized on the Minor Research Projects for the purpose for which it was sanctioned and that the balance of Rs. 63426 /- in words sixty three thousand four hundred twenty six rupees remaining



unutilized at the end of the financial year during 31.3.2024 will be utilized in next year along with grant-in-aid payable during the next year. In case fund remain unutilized will be refunded. Certified that I have satisfied myself that the condition on which the grant-in-aid was sanctioned by the SantGadge Baba Amravati University under Rajiv Gandhi Science & Technology Commission has actually been utilized for the purpose for which it was sanctioned.


Signature of the Principal 28/04/2024 **Mr. Kapil D. Jagtap**
Investigator and Date Assistant Professor & HOD Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal


Signature of the Chartered Accountant and Date 24/4/24

UDIN :- 24108564 B5245 P9840


Signature of the Head of the Institution /
Principal of the College **PRINCIPAL**
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal