

**UNIVERSITY GRANT COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI-001 002**

**STATEMENT OF EXPENDITURE IN RESEARCH OF MAJOR / MINOR
RESEARCH PROJECT**

1. Name of Project Investigator : **Dr. S. S. Rahangdale**
2. Deptt. of University/College : **Department of Chemistry, Jagat Arts, Com. And I. H. P.
Science College, Goregaon**
3. UCG approval No. and Date : **F. No. 42-314/2013 (SR)**
4. Title of Research Project : **Synthesis and Characterization of Nanoporous Polymer
and their Applications**
5. Effective date of starting the project : **01 – 04 – 2013.**
6. a. Period of Expenditure: From : **01 – 04 – 2013** to **31 – 03 -2017.**
- b. Details of Expenditure

S. No.	Item	Amount Approved Rs.	Expenditure incurred Rs.
li.	Book & Journals	20,000 /-	18,841 /-
ii.	Equipment (please enclose the quotation)	Nil	Nil
iii.	Contingency	50,000 /-	50,158 /-
iv.	Field Work / Travel (Give detail in the proforma At Annexure – VI	30,000 /-	32,380/-
v.	Hiring Services	Nil	Nil
vi.	Chemical & Glassware	3,00,000 /-	2,73,135/-
vii.	Overhead	35,000 /-	35,600/-
viii.	Any other item (Please specify)	Nil	Nil
Total		4,35,000 /-	4,10,114/-
Grant Released as First Install		2,45,000 /-	Balance 1,65,114/-

c. Staff

Date of Appointment

S.No.	Expenditure Incurred	From to	Amount Approved(Rs.)	Expenditure incurred (Rs.)
1.	Honorarium to PI (Retired Teachers) Rs. 12,000 /- p.m		Nil	
2.	Post – Doctoral Fellow Fellowship @ Rs. 12,000 /- p.m		Nil	
3.	Project Associate Salary @ Rs. 10,000 /- p.m		Nil	
4.	Project Fellow Salary @ Rs. 8,000 /- p.m		Nil	

1. It is certified that the appointment (s) have been made in accordance with the term and condition laid down by the commission.

2. If as a result of check or audit objection some irregularly is noticed later date, action will be taken to refund , adjust or regularize the objected amounts.

3. Payment @ revised rates shall be made with arrears on the availability of additional funds.

4. It is certified that the grant of Rs. 2, 45, 000/- (Rupees Two Lack Forty five thousand only) Received from the University Grant Commission under the scheme of support for the Major Research Project entitled “Synthesis and Characterization of Nanoporous Polymer and their Applications” Vide UCG letter No. F. No. 42-314/2013(SR) dated 25 March 2013 has been fully utilized for the purpose for which it was sanctioned and in accordance with the term and conditions laid down by the University Grant Commission.

Signature_____

(Principal Investigator)

Signature_____

(Registrar/Principal)

Seal/Stamp

Signature_____

(Govt. Internal AUDITOR

/Chartered Accountant)

Seal/Stamp

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STATEMENT OF EXPENDITURE INCURRED ON FIELD WORK

Name of Principal Investigator: **Dr. S. S. Rahangdale**

Name of the Place visited	Duration of the Visit		Mode of Journey	Expenditure Incurred (Rs.)
	From	To		
1. NCL Pune	03/06/15	08/06/15	Train	2940/-
2. VNIT, Nagpur	10/11/15	13/11/15	Car	3240/-
3. Institute of Science, Nagpur	07/11/16	09/11/16	Car	3060/-
4. Pt. Ravishankar Shukla University, Raipur	29/10/16	02/11/16	Car	3000/-
5. Sant Gadge Baba Amravati University	24/11/16	26/11/16	Car	5040/-
			Total	17,280/-

Certified that the above expenditure is in accordance with the UGC norm for Major Research Projects.

SIGNATURE OF THE PRINCIPAL INVESTIGATOR REGISTRAR/PRINCIPAL STATUTORY AUDITOR

(seal)

(Govt. Internal Auditor/
Chartered Accountant)

(seal)

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**Annual Report of the work done on the Major Research Project.
(Report to be submitted within 6 week after completion of each year)**

1. Project report No. 1st /2nd /3rd / Final **First**
2. UGC Reference No. **F. No. 42-314/2013 (SR)**
3. Project of report: **From 01 – April – 2013 to 01 – April -2014.**
4. Title of Research Project **Synthesis and characterization of nanoporous
polymers and their applications**
5. (a) Name of Principal Investigator: **Dr. S. S. Rahangdale**

(b)Department and University/College where work has progressed:
**Department of Chemistry,
Jagat Arts, Com. and I. H. P. Science College,
Goregaon**
6. Effective date of starting of the project **01st April 2013**
7. Grant approved and expenditure incurred during the period of the report:
 - a. Total amount approved Rs. **4,35,000/-**
 - b. Total expenditure Rs. **2,45,000/-**
 - c. Report of the work done: (Please attach an separate sheet)
 - i. Brief objective of the project
 - 1) Synthesis of new organic Polymers
 - 2) Characterization of synthesized polymers by Spectral
and physico – chemical methods.
 - 3) To study the applications of these new polymers.
 - ii. Work done so far and results achieved and publication, if any , resulting from the
work (Give details of the papers and names of the journals in which it has been
published or accepted for publication

- iii. Has the progress been according to original plan of work and towards achieving the objective. If not, state reasons – **Yes**
- iv. Please indicate the difficulties , if any , experienced in implementing the project
Nil
- v. If project has not been completed, please indicate the approximate time by which it is likely to be completed. A summary of the work done for the period (Annual basis) may please be sent to the commission on a separate sheet

See Annexure I

- vi. If the project has been completed, please enclose a summary of the finding of the study. Two bound copies of the final report of work done may also be sent to the Commission
N.A.
- vii. Any other information which would help in evaluation of work done on the project. At the completion of the project, the first report should indicate the output, such as (a) Manpower trained (b) Ph. D. awarded (c) Publication of result (d) other impact, if any

- 1. 6 papers have been Published in International journals of repute.

**SIGNATURE OF THE PRINCIPAL
INVESTIGATOR**

REGISTRAR/PRINCIPAL

**UNIVERSITY GRANT COMMISSION
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NEW DELHI-001 002**

**PROFORMA FOR SUBMISSION OF INFORMATION AT THE TIME OF SENDING
THE FINAL REPORT OF THE WORK DONE ON THE PROJECT**

1. TITLE OF THE PROJECT : Synthesis and characterization of nanoporous polymers and their applications
2. NAME AND ADDRESS OF THE PRINCIPAL INVESTIGATOR:
 Dr. S. S. RAHANGDALE
 BEHIND BAJAJ CHEMICALS
 SHASHTRI WARD, GONDIA-441601
3. NAME AND ADDRESS OF THE INSTITUTION:
 Department of Chemistry,
 Jagat Arts, Com. and Indiraben Hariharbhai Patel
 Science College Goregaon-441801 (M. S.)
4. UGC APPROVAL LETTER NO. AND DATE:
 F. No. 42-314/2013 (SR)
5. DATE OF IMPLEMENTATION: 01-04-2013
6. TENURE OF THE PROJECT: 03 YEARS
7. TOTAL GRANT ALLOCATED: 4, 35, 000 /-
8. TOTAL GRANT RECEIVED: 2, 45, 000 /-
9. FINAL EXPENDITURE: 4, 10, 114 /-
10. TITLE OF THE PROJECT Synthesis and characterization of nanoporous polymers and their applications
11. OBJECTIVES OF THE PROJECT: 1) Synthesis of new organic Polymers
 2) Characterization of synthesized polymers by Spectral and physico – chemical methods.
 3) To study the applications of these new polymers.

12. WHETHER OBJECTIVES WERE ACHIEVED: YES

(GIVE DETAILS)

See the list of publication and final report.

13. ACHIEVEMENT FROM THE PROJECT:

1. 06 Research Papers have been published in International and National repute.
2. The nanoporous polymer were found to be useful for the separation of toxic metal ions from waste water or industrial influents.

14. SUMMARY OF THE FINDINGS: See attached detailed report of the project.

15. CONTRIBUTION TO THE SOCIETY: The synthesized new nanoporous polymers

(GIVE DETAILS)

can use as ion exchangers semiconductors.

16. WHETHER ANY PH. D. ENROLLED/PRODUCED OUT OF THE PROJECT: NO

17. NO. OF PUBLICATIONS OUT OF THE PROJECT:

Research paper publications in international and national journals.

(PRINCIPAL INVESTIGATOR)

(REGISTRAR/PRINCIPAL)

(Seal)