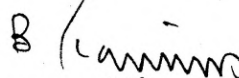


UNIVERSITY GRANTS COMMISSION  
BAHADUR SHAH ZAFAR MARG  
NEW DELHI – 110 002.

**Annual/Final Report of the work done on the Major/Minor Research Project.**

1. Project report No. 1st/2nd/3rd/Final: 2<sup>nd</sup> and Final
2. UGC Reference No. F. No. 37-540/2009 (SR), dated : 23 Dec, 2009
3. Period of report: from 1<sup>st</sup> February, 2010 to 28<sup>th</sup> February, 2012
4. Title of research project: A study of computational aspect of connectedness and its variations in some classes of topological spaces
5. (a) Name of the Principal Investigator: Dr. Debajit Hazarika  
(b) Deptt. and University/College where work has progressed:  
Department of Mathematical Sciences, Tezpur University
6. Effective date of starting of the project: 1st March, 2010
7. Grant approved and expenditure incurred during the period of the report:
  - a. Total amount approved: Rs. 1,40,000/- (received Rs. 1,10,000/-)
  - b. Total expenditure: Rs. 1,11,128/-
  - c. Report of the work done: *(Please attach a separate sheet)*  
*(Please see the attached sheet)*
  - i. Brief objective of the project: *(Please see the attached sheet)*
  - ii. Work done so far and results achieved and publications, 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)  
*(Please see the attached sheet)*
  - iii. Has the progress been according to original plan of work and towards achieving the objective. if not, state reasons: *Progress as per plan of work*

  
Finance Officer  
Tezpur University

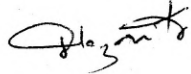
iv. Please indicate the difficulties, if any, experienced in implementing the project: Non-receipt of the second installment

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:

**Completed**

vi. If the project has been completed, please enclose a summary of the findings of the study. Two bound copies of the final report of work done may also be sent to the Commission: **Enclosed**

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 results (d) other impact, if any: **None**



SIGNATURE OF THE PRINCIPAL  
INVESTIGATOR



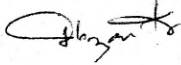
REGISTRAR/PRINCIPAL  
*Registrar*  
*Ternur University*

SIGNATURE OF THE CO-  
INVESTIGATOR

UNIVERSITY GRANTS COMMISSION  
BAHADUR SHAH ZAFAR MARG  
NEW DELHI – 110 002

Utilization certificate

Certified that the grant of Rs. 1,10,000/- (Rupees One Lakh Ten thousand only) received from the University Grants Commission under the scheme of support for Major Research Project entitled vide UGC letter No. F. No. 37-540/2009 (SR), dated: 23 Dec, 2009 has been fully utilized for the purpose for which it was sanctioned and in accordance with the terms and conditions laid down by the University Grants Commission.

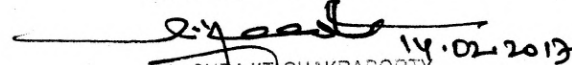


SIGNATURE OF THE  
PRINCIPAL  
INVESTIGATOR



REGISTRAR/PRINCIPAL  
*Registrar  
Tezpur University*

For SURAJIT CHAKRADORTY & CO.  
CHARTERED ACCOUNTANTS



14.02.2013  
CA. SURAJIT CHAKRADORTY  
(Proprietor)  
Membership No.- 305054

STAUTORY AUDITOR

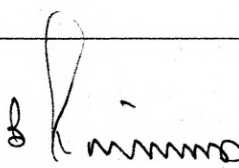
SIGNATURE OF THE CO-  
INVESTIGATOR

**UNIVERSITY GRANTS COMMISSION  
BAHADUR SHAH ZAFAR MARG  
NEW DELHI – 110 002**

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

1. Name of Principal Investigator: Dr. Debajit Hazarika
2. Deptt. of University/College: Mathematical Sciences, Tezpur University
3. UGC approval No. and Date: F. No. 37-540/2009 (SR), dated : 23 Dec, 2009
4. Title of the Research Project: A study of computational aspect of  
connectedness and its variations in some classes of topological spaces
5. Effective date of starting the project: 1<sup>st</sup> March, 2010
6. a. Period of Expenditure: From 15th March, 2010 to 28 February, 2012
- b. Details of Expenditure \_\_\_\_\_

S. No.	Item	Amount Approved Rs	Expenditure Incurred Rs
i.	Books and Journals	30,000/-	29,990/-
ii.	Equipment (Please enclose quotation)	50,000/-	50,000/-
iii.	Contingency	15,000/-	15,058/-
iv.	Field work/Travel (Give details in the proforma at Annexure-VI)	15,000/-	16,080/-
v.	Hiring Services	nil	Nil
vi.	Chemicals and Glassware	Nil	
vii.	Overhead	Nil	Nil
viii.	Any other items (Please specify)	Nil	Nil

  
 Finance Officer  
 Tezpur University

**Annexure - VI**  
**UNIVERSITY GRANTS COMMISSION**  
**BAHADUR SHAH ZAFAR MARG**  
**NEW DELHI - 110 002**

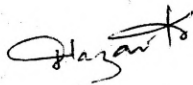
**STATEMENT OF EXPENDITURE INCURRED ON FIELD WORK**

**Name of the Principal Investigator: Dr. Debajit Hazarika**

Name of place visited	Duration of visit		Mode of Journey	Expenditure Incurred (Rs.)
	From	To		
NEIST, Jorhat	09-10-2010	09-10-2010	Own vehicle	Rs 2880/-
IIT, Guwahati	14-10-2010	15-10-2010	-do-	Rs. 3280/-
Gauhati University Guwahati	12-02-2011	12-02-2011	-do-	Rs. 3360/-
NERIST, Itanagar	19-02-2011	19-02-2011	-do-	Rs. 3520/-
IIT, Guwahati	26-02-2011	26-02-2011	-do-	Rs. 3040/-

(Visits per approval DoRD/Math.Sc/20-32/565-A)

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



**SIGNATURE OF PRINCIPAL INVESTIGATOR**



**REGISTRAR/PRINCIPAL**

*Registrar*  
*Tezpur University*

**SIGNATURE OF THE CO-INVESTIGATOR**

c . Staff - Not applicable -

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.			
2	Post-Doctoral Fellow Fellowship @ Rs. 12,000/- p.m			
3	Project Associate salary @ Rs.10,000/- p.m.			
4	Project Fellow ' salary @ Rs.8000/- p.m.			

1. It is certified that the appointment(s) have been made in accordance with the terms and conditions laid down by the Commission.

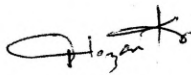
2. It as a result of check or audit objective, some irregularly is noticed, later date, action will be taken to refund, adjust or regularize the objected amounts.

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

4. It is certified that the grant of Rs. 110,000/- (*Rupees One Lakh Ten Thousand only*) received from the University Grants Commission under the scheme of support for Major Research Project entitled:

*A study of computational aspect of connectedness and its variations in some classes of topological spaces.*

vide UGC letter No. F. No. 37-540/2009 (SR), Dated 23 December, 2009 has been fully utilized for the purpose for which it was sanctioned and in accordance with the terms and conditions laid down by the University Grants Commission.



SIGNATURE OF PRINCIPAL  
INVESTIGATOR

SIGNATURE OF THE CO-  
INVESTIGATOR



REGISTRAR/PRINCIPAL  
*Registrar*  
Tezpur University

For SURAJIT CHAKRABORTY & CO.  
CHARTERED ACCOUNTANTS

  
CA. SURAJIT CHAKRABORTY  
(Proprietor)

Membership No.- 305054