Progress Report for R&D Projects [Final report, 2014]

Section-A: Project Details

A1. Project Title:

UNDERSTANDING THE MOLECULAR INTERACTIONS BETWEEN NK RECEPTOR DIVERSITY AND ACTIVATION WITH DIVERSE MALIGNANCY IN HNSCC PREVALENT IN THE POPULATION OF ASSAM.

A2. DBT Sanction Order No. & Date: No. BT/50/NE/TBP/2010 dated 15/12/2010

A3. Name of Principal Investigator: Dr. Shashi Baruah, Tezpur University, Tezpur Name of Co-PI/Co-Investigator: Dr. Nabajyoti Saikia, Assam Medical College and Hospital, Dibrugarh & Dr. Jyotirmoy Phookon, Gauhati Medical College and Hospital, Guwahati

A4. Institutes: Tezpur University, Assam Medical College and Hospital & Gauhati Medical College and Hospital

A5. Address with Contact Nos. (Landline & Mobile) & Email:
Department of Molecular Biology and Biotechnology, Tezpur University, Napaam, Tezpur,
Assam. Email: sbaruah@tezu.ernet.in; Ph no: +919435082587

A6. Total Cost: Rs. 27, 04,660/-

A7. Duration: 3 years

A8. Approved Objectives of the Project: .

- To document the prevalence of Head and Neck Squamous Cell Carcinomas (HNSCC)
 in Assam and to assess the diversity of the malignancy with respect to anatomic
 (site and sub site) and histological (differentiation stage of the squamous cell)
 specificity and clinical presentation
- 2. Assess the correlation of cancer incidence and diversity with local habits and ethnicity of the population
- 3. To study NK cell mediated self-tolerance in relation to HNSCC
- 4. To investigate the association between KIRs and CD94/ NKG2 expression, NK activation and disease progression

A9. Specific Recommendations made by the Task Force (if any): NIL

FINAL CONSOLIDATED STATEMENT OF EXPENDITURE (FOR FINAL SETTLEMENT OF ACCOUNTS)

1. Title of the Project : UNDERSTANDING THE MOLECULAR INTERACTIONS

BETWEEN NK RECEPTOR DIVERSITY AND

ACTIVATION WITH DIVERSE MALIGNANCY IN HNSCC

1 2 3

PREVALENT IN THE POPULATION OF ASSAM

2. Sanctioned Project Cost : 44.45 Lakhs (33.23 Lakhs for Tezpur University)

3. Revised cost, if any ; N/A

4. Duration of the project : 3 years

5. Sanction Order No. & Date : BT/50/NE/TBP/2010 dated 15/12/2010

6. Date of commencement of Project: 15/12/2010

7. Extension, if any : Jan 2014 - June 2014

8. Date of completion of project : June 2014

etalls of grants, expenditure and balance

													The state of the s		
Heads	Sanctioned Cost	Year-w	ise Releases	Year-wise Releases made (financial year-wise; in Rs.)	ncial year-w	ise; in Rs.)			Year-	wise Expen	diture mi si	Year-wise Expenditure mine (financial year-wise; in Rs.)	ar-wise; in	Rs.)	
	a 5	1 st yr	2 nd yr	3 rd Yr	4 th Yr	5 th Yr.		П	1 st yr	2 nd yr	3 rd Yr	4th I	5 th Yr.		
		(01/04/10 31/03/11)	(01/04/11 - 31/03/12)	(01/04/10 (01/04/11 (01/04/12 (01/04/13 (01/04/14 Total 31/03/11) 31/03/12) 31/03/13) 31/03/14) 31/03/15)	(01/04/13 : 31/03/14)	(01/04/14 - 31/03/15)	Total	3; (0	1/04/10 - 1/03/11)	(01/04/10 - (01/04/11 - (01/04/13 31/03/11) 31/03/12) 31/03/13	(01/04/12 31/03/13	5.5	(01/04/14 - 31/03/15)	Total	Balance
	A.	Non-recurring	ing					ŀ							
1 Equipment N/A	N/A							4							
	В.	Recurring				•		ŀ				-			
Manpower	9,48,000	3,07,000	3,07,000	1,54,000	66,979	1,92,000	6,53,000	-	0	1,54,021	2,40,000	64,000	1,94,510	1,94,510 6,52,531	469
2 Consumabl	17,00,000	7,00,000	7,00,000	8,59,000	5,87,744	19,000	19,000 15,78,000		0	6,59,041	3,12,215	45	57,402	57,402 15,77,952	48
3 Travel	2,25,000	75,000	75,000	1000	27,277	49,000	1,25,000		0	1467	47,256	31,517	45,000	45,000 1,25,240	-240
4 Contingenc	2,00,000	50,000	50,000	75,000	47,343	. 0	1,25,000		0	59,660	17,997	40,935	6,370	1,24,962	38
5 Overhead	2,50,000	1,00,000	1,00,000	98,000	50,817	26,000	2,24,000		0	98,183	49,000	50,817	25,975	2.23.975	25
				11,87,000		2,86,000+			3						
qiotal	33,23,000	12,32,000	12,32,000 12,32,000* 2,59,628* = 14,46,628		7,80,160* 43,597* = 3,29,597	43,597* = 3,29,597	27,05,000		0	9,72,372	6,66,468	7,36,563	3,29,257	27,04,660	340
								ſ				100			

Last financial year carry over amount

PROJECT INVESTIGATOR)

(HEAD OF INSTITUTION)

Registrar

Tezpur University

(FINANCE OFFICER)
Finance Officer
Tezpur University

(for the financial year 15th Dec 2010-31st March 2011)

(Rs. in Lakhs)

1. Title of the Project/Scheme:
UNDERSTANDING THE MOLECULAR INTERACTIONS BETWEEN NK RECEPTOR
DIVERSITY AND ACTIVATION WITH DIVERSE MALIGNANCY IN HNSCC PREVALENT
IN THE POPULATION OF ASSAM/ DBT-Twining

Name of the Organisation:

Tezpur University

3. Principal Investigator:

Dr. Shashi Baruah

 Deptt. of Biotechnology sanction order No. & date of sanctioning the project:

No. BT/50/NE/TBP/2010 dated 15/12/2010

5. Amount brought forward from the previous financial year quoting DBT letter No. & date in which the authority to carry forward the said amount was given:

N/A.

6. Amount received from DBT during the financial year (please give No. and dates of sanction orders showing the amounts paid):

Rs.12, 32,000/- (No. BT/50/NE/TBP/2010 dated 15/12/2010)

 Other receipts/interest earned, if any, on the DBT grants:

N/A

 Total amount that was available for expenditure during the financial year:

Rs.12,32,000/-

 Actual expenditure (excluding commitments) incurred during the financial year (statement of expenditure is enclosed):

Rs. 0

 Unspent balance refunded, if any (Please give details of cheque No. etc.):

N/A

11. Balance amount available at the end of the financial year:

Rs. 12,32,000/-

12. Amount allowed to be carried forward to the next financial year vide letter No. & date:

- Certified that the amount of <u>Rs.Nil</u> mentioned against col. 9 has been utilised on the project/scheme for the purpose for which it was sanctioned and that the balance of <u>Rs. 12,32,000/-</u> remaining unutilized at the end of the year will be adjusted towards the grants-in-aid payable during the next year.
- Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned
 have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see that
 the money was actually utilised for the purpose for which it was sanctioned.

Kinds of checks exercised:

1.

2.

3.

4.

5.

(PROJECT INVESTIGATOR)

(FINANCE OFFICER)

Finance Office Tezpur University

(HEAD OF THE INSTITUTE)

Registrar Tezpur University

(for the financial year ending 1st April 2011-31st March 2012)

(Rs. in Lakhs)

•	Title of the Project/Scheme: UNDERSTANDING THE MOLECULA DIVERSITY AND ACTIVATION WITH IN THE POPULATION OF ASSAM/ DBT	DIVERSE MALIGNA	BETWEEN ANCY IN HNS	NK RECEPTOR SCC PREVALENT
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Tezpur University Name of the Organisation: 2.

Dr. Shashi Baruah Principal Investigator: 3.

Deptt. of Biotechnology sanction order No. BT/50/NE/TBP/2010 dated 15/12/2010 . 4. No. & date of sanctioning the project:

Amount brought forward from the 5. Rs.12, 32,000/previous financial year quoting DBT letter No. & date in which the authority

to carry forward the said amount was given: · Amount received from DBT during the N/A

financial year (please give No. and dates of sanction orders showing the

amounts paid):

Other receipts/interest earned, if any, N/A

on the DBT grants:

Rs. 12,32,000/-Total amount that was available for

expenditure during the financial year

(Sl. Nos. 5,6 and 7):

Actual expenditure (excluding commitments) Rs. 9,72,372/-9.

incurred during the financial year (statement

of expenditure is enclosed):

N/A Unspent balance refunded, if any 10.

(Please give details of cheque No. etc.):

Rs. 2,59,628/-Balance amount available at the end 11. of the financial year:

Amount allowed to be carried forward to the next financial year vide letter No. & date: 12.

- 1. Certified that the amount of Rs.9,72,372/- mentioned against col. 9 has been utilised on the project/scheme for the purpose for which it was sanctioned and that the balance of Rs. 2,59,62 remaining unutilized at the end of the year will be adjusted towards the grants-in-aid payable durin the next year.
- Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctione
 have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see the
 the money was actually utilised for the purpose for which it was sanctioned.

Kinds of checks exercised:

1.

2

3.

5.

(PROJECT INVESTIGATOR)

(FINANCE OFFICER)
Finance Officer
Tezpur University

(HEAD OF THE INSTITUTE)

Registrar Tezpur University

(for the financial year ending 1st April 2012-31st March 2013)

(Rs. in Lakhs)

Title of the Project/Scheme: UNDERSTANDING THE MOLECULAR INTERACTIONS BETWEEN NK RECEPTOR DIVERSITY AND ACTIVATION WITH DIVERSE MALIGNANCY IN HNSCC PREVALENT IN THE POPULATION OF ASSAM/ DBT-Twining

Name of the Organisation: 2.

Tezpur University

3. Principal Investigator:

Dr. Shashi Baruah

Deptt. of Biotechnology sanction order 4. No. & date of sanctioning the project:

No. BT/50/NE/TBP/2010 dated 15/12/2010

Amount brought forward from the 5. previous financial year quoting DBT letter No. & date in which the authority to carry forward the said amount was given:

Rs. 2,59,628/-

Amount received from DBT during the 6. financial year (please give No. and dates of sanction orders showing the amounts paid):

Rs.11, 87,000/-(BCIL/NER-BPMC/2013/019 dated: 3/1/2013)

Other receipts/interest earned, if any, .7. on the DBT grants:

N/A

Total amount that was available for expenditure during the financial year (Sl. Nos. 5,6 and 7):

Rs. 14,46,628/-

Actual expenditure (excluding commitments) incurred during the financial year (statement of expenditure is enclosed):

Rs. 6,66,468/-

Unspent balance refunded, if any 10. (Please give details of cheque No. etc.):

N/A

Balance amount available at the end 11. of the financial year:

Rs. 7,80,160/-

Amount allowed to be carried forward to the next financial year vide letter No. & date: 12.

- 1. Certified that the amount of Rs.6,66,468/- mentioned against col. 9 has been utilised on the project/scheme for the purpose for which it was sanctioned and that the balance of Rs. 7,80,160 remaining unutilized at the end of the year will be adjusted towards the grants-in-aid payable during the next year.
- Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned
 have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see that
 the money was actually utilised for the purpose for which it was sanctioned.

Kinds of checks exercised:

1.

2.

3.

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5.

(PROJECT INVESTIGATOR)

(FINANCE OFFICER)
Finance Ont.
Tezpur University

(HEAD OF THE INSTITUTE)

Registrar

Tezpur University

(for the financial year ending 1st April 2013-31st March 2014)

(Rs. in Lakhs)

1. Title of the Project/Scheme:
UNDERSTANDING THE MOLECULAR INTERACTIONS BETWEEN NK RECEPTOR
DIVERSITY AND ACTIVATION WITH DIVERSE MALIGNANCY IN HNSCC PREVALENT
IN THE POPULATION OF ASSAM/ DBT-Twining

Name of the Organisation:

Tezpur University

Principal Investigator:

Dr. Shashi Baruah

4. Deptt. of Biotechnology sanction order No. & date of sanctioning the project:

No. BT/50/NE/TBP/2010 dated 15/12/2010

5. Amount brought forward from the previous financial year quoting DBT letter No. & date in which the authority to carry forward the said amount was given:

Rs. 7,80,160/-

6. Amount received from DBT during the financial year (please give No. and dates of sanction orders showing the amounts paid):

N/A

7. Other receipts/interest earned, if any, on the DBT grants:

N/A

8. Total amount that was available for expenditure during the financial year:

Rs. 7,80,160/-

 Actual expenditure (excluding commitments) incurred during the financial year (statement of expenditure is enclosed):

Rs. 7,36,563/-

 Unspent balance refunded, if any (Please give details of cheque No. etc.):

N/A

 Balance amount available at the end of the financial year:

Rs. 43, 597/-

12. Amount allowed to be carried forward to the next financial year vide letter No. & date:

- Certified that the amount of <u>Rs. 7,36,563/-</u> mentioned against col. 9 has been utilised on the project/scheme for the purpose for which it was sanctioned and that the balance of <u>Rs. 43, 597</u> remaining unutilized at the end of the year will be adjusted towards the grants-in-aid payable during the next year.
- Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see the the money was actually utilised for the purpose for which it was sanctioned.

Kinds of checks exercised:

1.

2.

3.

4.

5.

(PROJECT INVESTIGATOR)

4/6/15

Finance Officer
Tezpur University

(HEAD OF THE INSTITUTE)

Registrar

Tezpur University

(for the financial year ending 1st April 2014-31st March 2015)

(Rs. in Lakhs)

Title of the Project/Scheme:
UNDERSTANDING THE MOLECULAR INTERACTIONS BETWEEN NK RECEPTOR
DIVERSITY AND ACTIVATION WITH DIVERSE MALIGNANCY IN HNSCC PREVALENT
IN THE POPULATION OF ASSAM/ DBT-Twining

Name of the Organisation:

Tezpur University

Principal Investigator:

Dr. Shashi Baruah

Deptt. of Biotechnology sanction order
 No. & date of sanctioning the project:

No. BT/50/NE/TBP/2010 dated 15/12/2010

5. Amount brought forward from the previous financial year quoting DBT letter No. & date in which the authority to carry forward the said amount was given:

Rs. 43,597/-

6. Amount received from DBT during the financial year (please give No. and dates of sanction orders showing the amounts paid):

Rs. 2,86,000

7. Other receipts/interest earned, if any, on the DBT grants:

N/A

 Total amount that was available for expenditure during the financial year:

Rs. 3,29,597/-

 Actual expenditure (excluding commitments) incurred during the financial year (statement of expenditure is enclosed):

Rs. 3,29,257/-

10. Unspent balance refunded, if any (Please give details of cheque No. etc.):

N/A

11. Balance amount available at the end of the financial year:

Rs. 340/-

12. Amount allowed to be carried forward to the next financial year vide letter No. & date:

1.	Certified that the amount of Rs project/scheme for the purpose remaining unutilized at the end o dated)	for which it was sanction	ed and that the hale	ance of De 24
2.	Certified that I have satisfied my	self that the conditions on	which the grants-in-a	id was sanction
	have been duly fulfilled/are being	fulfilled and that I have ex	ercised the following	checks to see th
	the money was actually utilised for	r the purpose for which it w	as sanctioned.	
* .				
	Kinds of checks exercised:			
1.				
2		7		

(PROJECT INVESTIGATOR)

(FINANCE OFFICE)
Finance Officer
Tezpur University

(HEAD OF THE INSTITUTE)

Registrar

Tezpur University

Project Assistant			SANCTIONED POSTS
_		-	NUMBER
Rs.8000 Per Month	per Month	Rs.12000	SCALE OF PAY
96000		144000	ANNUAL OUTLAY
2,88,000		6,60,000	OUTLAY FOR THE ENTIRE PERIOD
			REVISED SCALE, IF ANY
			REVISED ANNUAL OUTLAY
			REVISED PROJECT OUTLAY
90000	02000	2,11,000	ACTUAL RELASES BY DBT
			ACTUAL EXPENDITURE
1000	06000	2,11,000	BALANCE

(Signature of Principal Investigator)

(Signature of Accounts Officer)

Finance Officer

Tezpur University

(SIGNATURE OF HEAD OF THE INSTITUTE)

FINENESSESSORM Registrar

Registrar

Registrar

Registrar

Registrar

Manpower Staffing Details (15th December 2010 - 31st March 2011)

			M/NI	. NA	Project	*
N/A	N/A	N/A	V/1V	277		
N. C.	NA	NA	NA	N/A	JRF	*
NI/A	21/4	200				
SALARY PAID DURING PROJECT PERIOD	SALARY PAID DURING THE FINANCIAL YEAR	MONTHLY SALARY	DATE OF LEAVING	DATE OF JOINING	NAME OF THE POST	NAME OF THE PERSON

No manpower was recruited

(Signature of Principal Investigator) Manno

(Signature of Accounts Officer)

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Common of

Tezpur University

(SIGNATURE OF HEAD OF THE INSTITUTE)

Registrar Tezpur University

Manpower Expenditure Details (1st April 2011 - 31st March 2012):

7.5		
Project Assistant	JRF	SANCTIONED POSTS
-	-	NUMBER
Rs.8000 Per Month	Rs.12000 per Month	SCALE OF PAY
96000	144000	ANNUAL
2,88,000	6,60,000	OUTLAY FOR THE ENTIRE PERIOD
		REVISED SCALE, IF ANY
		REVISED ANNUAL OUTLAY
		REVISED PROJECT OUTLAY
96000	2,11,000	ACTUAL RELASES BY DBT
2000/	103334	ACTUAL EXPENDITURE
43333	107,040	BALANCE

(Signature of Principal Investigator) Samen

(Signature of Accounts Officer) 19/2/12/12

Finance Officer

Tezpur University

(SIGNATURE OF HEAD OF THE INSTITUTE)

Tezpur University Registrar

Manpower Staffing Details (1st April 2011 - 31st March 2012)

					Assistant	Kalita
	NS.JOGO!	Rs.8000/-	N/A	21.09.2011	Project	Ms. Indrani
Rs.50667/-	De 50667/-	0000/				
	NS.103337	Rs. 12000/-	N/A	12.07.2011	JRF	Mr. Arunabha Banerjee
Rs. 103354/-	De 103354/-	10000/				
SALARY PAID DURING PROJECT PERIOD	TOTAL SALARY PAID DURING THE FINANCIAL YEAR	TOTAL MONTHLY SALARY	DATE OF LEAVING	DATE OF JOINING	NAME OF THE POST	NAME OF THE PERSON

(Signature of Principal Investigator)

(Signature of Accounts Officer)

Tezpur University

(SIGNATURE OF HEAD OF THE INSTITUTE)

Registrar

Tezpur University

Project Assistant		JRF	SANCTIONED POSTS
_		-	NUMBER
Rs.8000 Per Month	per Month	Rs.12000	SCALE OF PAY
96000		144000	ANNUAL OUTLAY
2,88,000		6,60,000	OUTLAY FOR THE ENTIRE PERIOD
			REVISED SCALE, IF ANY
			REVISED ANNUAL OUTLAY
			REVISED PROJECT OUTLAY
	96000	2,11,000	ACTUAL RELASES BY DBT
	96000	9 1 19 00	ACTUAL EXPENDITURE
	0		BALANCE

(Principal Investigator)

(SIGNATURE OF HEAD OF THE INSTITUTE)

(Signature of Accounts Officer) Tezpur University

- Second

Registrar.
Tezpur Unitersity

Manpower Staffing Details (1st April 2012 – 31stMarch 2013)

				Assistant	Ms. Indiani	
Na. Joos	Rs.8000/-	N/A	21.09.2011	Project	i I Jeni	
Re 96000/					Banerjee	
	KS. 120007	N/A	12.07.2011	JRF	Mr. Arunabha	
Rs.144000/	12000/-					_
YEAR						_
EINANCIAL				POST	PERSON	
TONIOTA T	SALAKY		OLLA	THE	THE	
PAID	MONTHLY			F	NAME OF	
SALARY	TOTAL	_	DATE OF			
TOTAL	1000					

(Signature of Principal Investigator)

(Signature of Accounts Officer)

derren ,

Tezpur University Finance Officer

(SIGNATURE OF HEAD OF THE INSTITUTE)

Registrar

Tezpur University

Manpower Staffing Details (In the financial year 1st April 2013-31st March 2014; in Rs.)

Ms. Indrani Kalita	Mr. Arunabha Banerjee	NAME OF THE PERSON
Project Assistant	Junior Research Fellow	NAME OF THE POST
21/09/2011	12/07/2011	JOINING
N/A	N/A	DATE OF LEAVING
8,000	Rs. 12,000 till May 2013 and Rs. 16000 for June 2013	TOTAL MONTHLY SALARY
24,000	40,000	SALARY PAID DURING THE FINANCIAL YEAR
1,70,667	2,87,354	SALARY PAID DURING PROJECT PERIOD

(Signature of Principal Investigator)

(Signature of Accounts Officer) 8 Kmm

Finance Office: Tezpur University

(SIGNATURE OF HEAD OF THE INSTITUTE)

Tezzur University

Assistant	Junior Research Fellow	SANCTIONE D POSTS
_		NUMBER
8,000/ month	month	SCALE OF PAY
96, 000	1,44,000	ANNUAL OUTLAY
2,88,000	6,60,000	OUTLAY FOR THE ENTIRE PERIOD
	per month from 15/03/13	REVISED SCALE, IF ANY
	1,92,000	REVISED ANNUAL OUTLAY
		REVISED PROJECT OUTLAY
0	66,979	ACTUAL RELASES BY DBT
24,000	40,000	ACTUAL EXPENDITU RE
2979		BALANCE

(Signature of Principal Investigator)

(Signature of Accounts Officer)

& (truming)

Tezpur University

(SIGNATURE OF HEAD OF THE INSTITUTE) Tezpur University Registrar

Annexure B

Manpower Staffing Details (In the financial year 1st April 2014-31st March 2015; in Rs.)

	(Includes fellowship from July 2013-				Assistant	Kalita
. 2,34,667	64,000	8,000	31/07/14	21/09/2011	Project	Me Indiani
light were	July 2013- December 2013)	e6 =			Tollow	
	(Includes fellowship from	(Promotion to SRF)	31/0//14	12/07/2011	Senior Research	Mr. Arunabha Banerjee
4 17 864	YEAR					
SALARY PAID DURING PROJECT	F	TOTAL MONTHLY SALARY	DATE OF LEAVING	DATE OF JOINING	NAME OF THE POST	NAME OF THE PERSON

(Signature of Principal Investigator)

(Signature of Accounts Officer)

Same of

Finance Officer Tezpur University

(SIGNATURE OF HEAD OF THE INSTITUTE)

Tespur University

Manpower Expenditure Details (In financial year 1st April 2014-31st March 2015; in Rs.):

Project Assistant	Senior Research Fellow	SANCTIONE D POSTS
		NUMBER
8,000/ month	18,000/ month	SCALE OF PAY
32, 000	72000	ANNUAL OUTLAY
2,88,000	6,60,000	OUTLAY FOR THE ENTIRE PERIOD
	18,000	REVISED SCALE, IF ANY
	2,16,000	REVISED ANNUAL OUTLAY
		REVISED PROJECT OUTLAY
0	1,94,979	ACTUAL RELASES BY DBT
64,000	1,30,510	ACTUAL EXPENDITU RE
409		BALANCE

(Signature of Principal Investigator)

(Signature of Accounts Officer) during y g

Tezpur University Finance Officer

(SIGNATURE OF HEAD OF THE INSTITUTE)

Registrar

Tezpur University