

CARE

COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai)

27, Thayanur, Trichy – 620009

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CRITERION 3.1.1.

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1	Mechanical Engineering	1-17


PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

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

3.1.3 Number of departments having Research projects funded by government and non government agencies during the year

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non-Government)
2013-2017							
Experimental Study and Thermodynamic Assesment of Ni-Ti-V Ternary system by coupling of CALPHAD and First - Principle method/ Fast Track Scheme for Young Scientists	Dr. K Santhy	MECH	2013	17.5	4 years	Department of Science and Technology	Government

S. Santhya

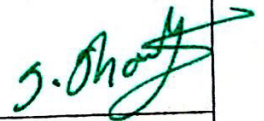
PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

ANNEXURE-I

UTILISATION CERTIFICATE (Two copies)

FOR THE FINANCIAL YEAR 2013-2014 (ENDING 31ST MARCH)

1.	Title of the Project/Scheme:	Experimental Study and Thermodynamic Assessment of the Ni-Ti-V Ternary System by Coupling of CALPHAD and First-Principle Method / Fast Track Scheme for Young Scientists
2.	Name of the institution:	CARE Group of Institutions
3.	Principal Investigator:	Dr.K. Santhy
4.	Department of Science & Technology letter no. & date sanctioning the project:	SERC/ET-0345/2012 & 16-08-2013
5.	Head of account as given in the original sanction letter:	Release of 1 st Instalment
6.	Amount brought forward from the previous financial year quoting DST letter No. and date in which the authority to carry forward the said amount was given	-
7.	Amount received during the financial year (Please give No. & Date of DST's sanction letter for the amount)	Rs.17,50,000 (Draft No, 048467 & dated 05-09-2013)
8.	Total amount that was available for the expenditure (excluding commitments) (Sl. No. 6+7)	Rs.17,50,000
9.	Actual expenditure (Excluding commitments) incurred during the financial year (Up to 31st March)	Rs.15,45,103
10.	Balance amount available at the end of the financial year	Rs. 2,04,897
11.	Unspent balance refunded if any (Please give details of cheque No. etc.)	-
12.	Amount to be carried forward to the next financial year (if applicable)	Rs. 2,04,897 *



PRINCIPAL
CARE COLLEGE OF ENGINEERING

* During March 2014, consumable purchase was under process No. 27, Thayanur, Trichy-620 009.

UTILISATION CERTIFICATE
[FOR THE FINANCIAL YEAR 2013-2014]

Certified that out of Rs. 17,50,000 of grants-in-aid sanctioned during the year 2013-2014 in favour of CARE School of Engineering under this Ministry/Department Letter No. SB/FTP/ETA-345/2012 and Rs. 2,04,897 on account of unspent balance of the previous year, a sum of Rs. 15,45,103 has been utilized for the purpose of capital items for which it was sanctioned and that the balance of Rs. 2,04,897 remaining unutilized at the end of the year will be adjusted towards the grants-in-aid payable during the next year i.e.2014-2015.

Santhy

Signature of Principal Investigator

Date: 24-11-2014

[Signature]

Signature of Registrar/
Head of the Institute

Date: 24 NOV 2014
DIRECTOR

C.A.R.E. GROUP OF INSTITUTIONS
No. 27, Thayanoor Village
(TO BE FILLED IN 620 009)

[Signature]

Account Officer of
the Institute

Date: 25.11.2014



Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been fulfilled/are and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned :

Kinds of checks exercised.

- 1.
- 2.
- 3.
- 4.
- 5.

[Signature]

PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

Signature :

Designation :

Date :

Statement of Expenditure
DOS (16-08-2013) to financial year (31-03-2014)

S. No.	Sanctioned Heads	Amount in Rs.				Remarks
		Funds Allocated	Fund Received	Expenditure incurred	Balance, if any	
A	Non Recurring (Capital items)	15,00,000	15,00,000		-41,373	The excess amount Rs. 41,373 provide by management form over head charges.
	Thermo-Calc			3,15,000		
	Database			5,61,750		
	VASP s/w*			5,94,023		
	Computer			68,800		
	UPS			1,800		
A'	Total			15,41,373		
B	Recurring	6,70,000	2,50,000		2,04,897	Procurement of consumables under process
	Consumables					
	Contingency			3,730		
	Travel (attending GMW meetings)					
	Over Heads			41,373**		
B'	Total			3,730		
C	Grand Total (A'+B')	21,70,000	17,50,000	15,45,103		

* Both CASTEP and VASP software's are used for first-principle calculations. Due to raise of dollar value and limited fund, instead of CASTEP software VASP is procured.

** Rs. 41,373 from overhead charges used for getting capital items.

Santhy
 (DR. K. SANTHY)
 Name and Signature of Principal Investigator:

Date: 9/5/2014

S. Prathap
PRINCIPAL
CARE COLLEGE OF ENGINEERING
 No. 27, Thayanur, Trichy-620 009.

V. Tharanitharan
 Signature of Competent financial / audit authority:

(Seal)

V. THARANITHARAN, FCA.,
 CHARTERED ACCOUNTANT
 A-5, N.E. EXTN., SALAI ROAD,
 THILLAINAGAR, TRICHY - 620 018.

Date: 9/5/2014



ANNEXURE-I

UTILISATION CERTIFICATE (Two copies)

FOR THE FINANCIAL YEAR 2014-2015 (ENDING 31ST MARCH)

1.	Title of the Project/Scheme:	Experimental Study and Thermodynamic Assessment of the Ni-Ti-V Ternary System by Coupling of CALPHAD and First-Principle Method / Fast Track Scheme for Young Scientists
2.	Name of the institution:	CARE Group of Institutions
3.	Principal Investigator:	Dr.K. Santhy
4.	Department of Science & Technology letter no. & date sanctioning the project:	SERC/ET-0345/2012 & 16-08-2013
5.	Head of account as given in the original sanction letter:	To release of 2 instalment
6.	Amount brought forward from the previous financial year quoting DST letter No. and date in which the authority to carry forward the said amount was given	Rs.2,04,897
7.	Amount received during the financial year (Please give No. & Date of DST's sanction letter for the amount)	NIL
8.	Total amount that was available for the expenditure (excluding commitments) (Sl. No. 6+7)	Rs.2,04,897
9.	Actual expenditure (Excluding commitments) incurred during the financial year (Up to 31st March)	Rs.5,56,931.10
10.	Balance amount available at the end of the financial year	-Rs.3,52,034.10
11.	Unspent balance refunded if any (Please give details of cheque No. etc.)	NIL
12.	Amount to be carried forward to the next financial year (if applicable)	0

S. Santhy

PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

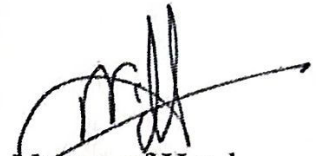
UTILISATION CERTIFICATE

Certified that out of Rs. NIL of grants-in-aid sanctioned during the year 2014-2015 in favour of CARE School of Engineering under this Ministry/Department Letter No. SB/FTP/ETA-345/2012 and Rs. 2,04,897 on account of unspent balance of the previous year, a sum of Rs. 5,56,931.10 has been utilized for the purpose of consumables, contingencies, travel and overhead charges for which it was sanctioned and that the balance of Rs.0 remaining unutilized at the end of the year will be adjusted towards the grants-in-aid payable during the next year i.e.2015-2016.



Signature of Principal Investigator
Date: 1/3/2016

Signature of Registrar / Accounts Officer
with date



Signature of Head of the Institute
DIRECTOR
C.A.R.E. GROUP OF INSTITUTIONS
No. 27, Thayanur Village
TRICHY - 620 009
E-2 MAR 2016

(TO BE FILLED IN BY DST)

Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been fulfilled/are and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned :

Kinds of checks exercised.

- 1.
- 2.
- 3.
- 4.
- 5.



PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

Signature

Designation

Date

**REQUEST FOR ANNUAL INSTALMENT WITH
UP-TO-DATE STATEMENT OF EXPENDITURE**

1. SERB Sanction Order No and date : SERC/ET-0345/2012 & 16-08-2013
2. Name of the PI : Dr.K. Santhy
3. Total Project Cost : Rs. 21,70,000
4. Revised Project Cost : NA
5. Date of Commencement : 16-08-2013
6. Statement of Expenditure: (current financial year)

Month & year	Expenditure incurred/ committed	Amount in Rs.
Apr-14	Overhead charges	2,58,627.00
May-14	Consumables	58,883.00
Jun-14	Contingency	3,120.00
Sep-14	contingency	17,640.00
Oct-14	Contingency	1,500.00
Nov-14	Travel	24,803.10
Dec-14	Consumables	1,90,295.00
Jan-15	Contingency	2,063.00
Total		5,56,931.10

1. Grant received in each year:

- a. 1st Year : Rs. 17,50,000
- b. 2nd Year : NIL
- c. 3rd Year : NIL
- d. Interest, if any : NIL
- e. Total (a + b + c + d): Rs.17,50,000


PRINCIPAL
CARE COLLEGE OF ENGINEERING
 No. 27, Thayanur, Trichy-620 009.

STATEMENT OF EXPENDITURE

DOS (01-04-2014) to financial year (31-03-2015)

S. No.	Sanctioned Heads	Total Funds Allocated	Expenditure Incurred		Total Expenditure	Balance as on date	Requirement of Funds upto 31 st March next year	Remarks (if any)
			1 st year (DOS to 31 st March 2014)	2 nd year (DOS to 31 st March 2015)				
A	Non Recurring (Capital items)							
	Thermo-Calc		3,15,000.00					
	Database		5,61,750.00					
	VASP S/W		5,94,023.00					
	Computer		68,800.00					
	UPS		1,800.00					
A'	Total	15,00,000.00	15,00,000.00	0.00	15,00,000.00	0.00	0.00	
B	Recurring							
	Consumables	2,50,000.00		2,49,178.00	2,49,178.00	822.00		
	Contingency	60,000.00	3,730.00	24,323.00	28,053.00	31,947.00		
	Travel	60,000.00		24,803.10	24,803.10	35,196.90		
	Overheads	3,00,000.00	41,373.00	2,58,627.00	3,00,000.00	0		
B'	Total	6,70,000.00	45,103.00	5,56,931.10	5,56,931.10	67,956.90		
C	Grand Total (A'+B')	21,70,000.00	15,45,103.00	5,56,931.10	21,02,034.10	67,956.90	67,956.90	

Name and Signature of Principal Investigator: *Santhy*

S. Shakti
PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009

Signature of Competent financial/audit authority: *Saravitharan*

Date: 1/3/2016.

SARAVITHARAN, FCA.
CHARTERED ACCOUNTANT
A-5, N.E. (Seal), SALAI ROAD
THILLAINAGAR, TRICHY 620 018

Date:



ANNEXURE-I

UTILISATION CERTIFICATE (Two copies)

FOR THE FINANCIAL YEAR 2015-2016 (ENDING 31ST MARCH)


1.	Title of the Project/Scheme:	Experimental Study and Thermodynamic Assessment of the Ni-Ti-V Ternary System by Coupling of CALPHAD and First-Principle Method / Fast Track Scheme for Young Scientists
2.	Name of the institution:	CARE Group of Institutions
3.	Principal Investigator:	Dr.K. Santhy
4.	Department of Science & Technology letter no. & date sanctioning the project:	SERC/ET-0345/2012 & 16-08-2013
5.	Head of account as given in the original sanction letter:	To release of 2 & 3 instalment
6.	Amount brought forward from the previous financial year quoting DST letter No. and date in which the authority to carry forward the said amount was given	NIL
7.	Amount received during the financial year (Please give No. & Date of DST's sanction letter for the amount)	NIL
8.	Total amount that was available for the expenditure (excluding commitments) (Sl. No. 6+7)	NIL
9.	Actual expenditure (Excluding commitments) incurred during the financial year (Up to 31st March)	Rs.62,025.00
10.	Balance amount available at the end of the financial year	-Rs.4,14,059.10
11.	Unspent balance refunded if any (Please give details of cheque No. etc.)	NIL
12.	Amount to be carried forward to the next financial year (if applicable)	0



PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

UTILISATION CERTIFICATE

Certified that out of Rs. NIL of grants-in-aid sanctioned during the year 2015-2016 in favour of CARE School of Engineering under this Ministry/Department Letter No. SB/FTP/ETA-345/2012 and Rs. 0 on account of unspent balance of the previous year, a sum of Rs. 62,025.00 has been utilized for the purpose of contingencies and travel for which it was sanctioned and that the balance of Rs.0 remaining unutilized at the end of the year will be adjusted towards the grants-in-aid payable during the next year i.e.2016-2017.


Signature of Principal Investigator
Date: 11/3/2016




Name of Institution
C.A.R.E. COLLEGE OF ENGINEERING
No. 27, Thayanur Village
TRICHY - 620 009


2 MAR 2016

(TO BE FILLED IN BY DST)

Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been fulfilled/are and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned :

Kinds of checks exercised.

- 1.
- 2.
- 3.
- 4.
- 5.


PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

Signature
Designation
Date

REQUEST FOR ANNUAL INSTALMENT WITH UP-TO-DATE STATEMENT OF EXPENDITURE

1. SERB Sanction Order No and date : SERC/ET-0345/2012 & 16-08-2013
2. Name of the PI : Dr.K. Santhy
3. Total Project Cost : Rs. 21,70,000
4. Revised Project Cost : NA
5. Date of Commencement : 16-08-2013
6. Statement of Expenditure: (current financial year)

Month & year	Expenditure incurred/ committed	Amount in Rs.
Apr-15	Contingency	1,200.00
May-15	Contingency	4,500.00
May-15	Travel	22,000.00
Jun-15	Contingency	4,150.00
Jun-15	Travel	13,000.00
Aug-15	Contingency	4,359.00
Sep-15	Contingency	1,266.00
Oct-15	Contingency	6,700.00
Nov-15	Contingency	4,500.00
Jan-15	Contingency	350.00
Total		62,025.00

1. Grant received in each year:

- a. 1st Year : Rs. 17,50,000
- b. 2nd Year : NIL
- c. 3rd Year : NIL
- d. Interest, if any : NIL
- e. Total (a + b + c + d): Rs.17,50,000

S. Santhy

PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

STATEMENT OF EXPENDITURE

DOS (01-4-2015) to financial year (31-03-2016)

S. No.	Sanctioned Heads	Total Funds Allocated	Expenditure Incurred			Total Expenditure	Balance as on date	Requirement of Funds upto 31 st March next year	Remarks (if any)
			1 st year (DOS to 31 st March 2014)	2 nd year (1 st April 2014 to 31 st March 2015)	3 rd year (1 st April 2015 to 31 st March 2016)				
A	Non Recurring (Capital items)								
	Thermo-Calc		3,15,000.00						
	Database		5,61,750.00						
	VASP S/W		5,94,023.00						
	Computer		68,800.00						
	UPS		1,800.00						
A'	Total	15,00,000.00	15,00,000.00	0.00	0.00	15,00,000.00	0.00	0.00	
B	Recurring								
	Consumables	2,50,000.00		2,49,178.00		2,49,178.00	822.00		
	Contingency	60,000.00	3,730.00	24,323.00	27,025.00	55,078.00	4,922.00		
	Travel	60,000.00		24,803.10	35,000.00	59,803.10	196.90		
	Overheads	3,00,000.00	41,373.00	2,58,627.00	0.00	3,00,000.00	0.00		
B'	Total	6,70,000.00	45,103.00	5,56,931.10	62,025.00	6,64,059.10	5,940.90		
C	Grand Total (A'+B')	21,70,000.00	15,45,103.00	5,56,931.10	62,025.00	21,64,059.10	5,940.90	5,940.90	

Name and Signature of Principal Investigator: *[Signature]*

Signature of Competent financial/audit authority: *[Signature]*

Date: 1/3/2016

**PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009**



**V. THARANITHARAN, FCA.
(Seal)
CHARTERED ACCOUNTANT
A-5, N.E. EXTN., SALAI ROAD
THILLAINAGAR, TRICHY 620 018**

Date: