



SARANATHAN COLLEGE OF ENGINEERING
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

INDEX

CRITERION: 3.1.3

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Electronics and Communication Engineering



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம் TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamil Nadu)
Directorate of Technical Education Campus, Chennai - 600 025

Phone : 044 - 2230 1428

Web : www.tanscst.nic.in

Telefax : 044 - 2230 1552

E-mail : enquiry.tanscst.nic.in / ms.tanscst@nic.in

DR. R. SRINIVASAN, M.Sc., Ph.D., F.I.C.S., M.A.C.S. (USA)
Member Secretary

Ref: TNSCST/RFRS/VR/12/2018-19/ 7366

dt.28.05.2019

To
B.Divya
Research Scholar
Dept. of ECE
Saranathan College of Engg.,
Trichy-620 012

Sir/Madam,

Sub: Programme to bridge the gap in research funding for research scholars
in colleges (RFRS)- Approval – Intimated – Reg.
Ref: Chairman Approval dt.26.03.2019.

With reference to the above, I am happy to inform that the Chairman,
Executive Committee of the Council has approved RFRS funding for your application
as per the details given below:

Title	Amount Rs.in lakh	Duration
Intelligent post harvest monitoring and controlling system using wireless sensor network	3.00	2 years

The terms and conditions of the grant is enclosed. Your acceptance should be
received in our office on or before **03.06.2019**. Prof.V.Ramaswami, Associate
Professor of the Council and Officer in Charge of the above programme (Mobile
Number : 9444743052) may be contacted for clarification, if there is any.

With wishes,

Yours faithfully,


Member Secretary

Copy to: The Principal
Saranathan College of Engg.,
Trichy-620 012

2.Dr.M.Santhi
Prof. and Head, ECE
Saranathan College of Engg.,
Trichy-620 012

Date:29.11.2019

F.No.9-136/RIFD/MOD/Policy-I/2018-19

All India Council for Technical Education
(A Statutory Body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



MODROB - Sanction Letter

F.No.9-136/RIFD/MOD/Policy-I/2018-19

Date:03.12.2019

To,
The Drawing and Disbursing Officer,
All India Council for Technical Education,
Nelson Mandela Marg, Vasant Kunj,
New Delhi- 110070.



[Handwritten signature]
20/3/2020

Sub: Release of a sum of Rs.960000/- (Rupees Nine Lakh Sixty Thousand Only) being the Grant-in-Aid under the scheme Modernization and Removal of Obsolescence (MODROB) for the year 2018-19 payable during the current financial year 2019-20- reg.

Sir,

With reference to the proposal submitted by the institute, this is to convey that the sanction of the Council for payment of Rs.1200000/- (Rupees Twelve Lakh Only) as Grant-in-Aid under the Modernization and Removal of Obsolescence (MODROB) scheme, as per details given below:

1.	Name and address of the Beneficiary Institution:	Director/ Principal/ Registrar, SARANATHAN COLLEGE OF ENGINEERING, VENKATESWARA NAGAR EDAMALAI PATTIPUDUR POST PANJAPPUR VILLAGE SRIRANGAM TALUK Tamil Nadu -620912		
2.	Title of Project:	Modernization of Communication Lab with Software defined Radio and removal of obsolescent equipment		
3.	Name of Coordinator:	Dr. SANTI MUTHURATHINAM		
4.	Duration of the project:	2 Years		
4.	Total Grant-in-aid Sanctioned:	Total: Rs.1200000/-	Non-Recurring (85%): Rs.1020000/-	Recurring (15%): Rs.180000/-
5.	Amount to be released during the year 2019-20:	1st Installment Rs.960000/-	Non-Recurring (85%): Rs.816000/-	Recurring (15%): Rs.144000/-
6.	Sanctioned grant-in-aid is debitable to:	Major Head 601.18(a) Gen. (Plan Head)		

1. The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/Principal/ Registrar of the Institute through RTGS/PFMS.
2. This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

THE INSTRUCTIONS/GUIDELINES TO BE FOLLOWED BY UNIVERSITY/INSTITUTION

1. Release of funds:

- a. The Principal/ Director of the institute and the Coordinator of the project are hereby requested to verify the correctness of the under mentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released:

Institute PAN No.	Bank Name	Bank Branch Name	Branch Address	Account Holder Name	Account Type	Account Number	IFSC
AAETS 6115N	CITY UNION BANK	TIRUCHIRAPPALI MAIN	KALLI AMMAN KOIL STREET, SIGG CAMPUS, TIRUCHIRAPPALI	SARANATHAN COLLEGE OF ENGINEERING	Saving Account	02300100 0138318	CIUB000 0023

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI - 600 025


STUDENT PROJECT SCHEME 2018-2019

UTILISATION CERTIFICATE

1. Name of the guide and address : Dr. M. Santhi
Professor & Head
Department of ECE
Saranathan College of Engineering
Trichy, TamilNadu
2. Name of the student(s) : M. Merline Magrina
M.E Communication Systems
3. Title of the project : Recognition of Ancient Tamil
Characters from Epigraphical
Inscriptions using OCR Technique
4. Project code : EEE - 013

It is certified that a sum of Rs. 7500 (Rupees Seven Thousand Five Hundred) only Sanctioned by the council for carrying out above mentioned student project has been utilized for the purpose for which it was sanctioned and the sum of Rs. Nil remaining unutilized is refunded.


Signature of the guide


Signature of the HOD

H.O.D. (ECE)
Saranathan College of Engineering
Trichirapalli - 620 012.


Signature of the

REGISTRAR/PRINCIPAL/DEAN
Saranathan College of Engineering
Trichy - 12.



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



GOC - Sanction Letter

To

The Drawing and Disbursing Officer
All India Council for Technical Education
Nelson Mandela Marg, Vasant Kunj,
New Delhi-110070

Subject: Release of a sum of Rs. 5,00,000/- (Rupees Five lakh only) as Grant-in-Aid to conduct Conference under the scheme Grant for Organizing Conference (GOC) for the year 2018-19 payable during the current financial year 2019-20-reg.

Sir,

With reference to the proposal submitted by the institute, this is to convey the sanction of the Council for payment of Rs. 5,00,000/- (Rupees Five lakh only) to conduct Conference under the scheme Grant for Organizing Conference (GOC), as per details given below:

1.	Name and address of the Beneficiary Institution:	Director/ Principal/ Registrar Saranathan College of Engineering, Venkateswara Nagar, Edamalaipattipudur-Post, Panjappur-Village, Srirangam-Taluk, Tiruchirappalli, Tamil Nadu-620012
2.	Permanent ID of Institute:	1-4190371
3.	Title of Conference:	International Conference on Cutting Edge Technologies on Electrical, Communication, Embedded system and soft computing techniques
4.	Name of Coordinator:	Dr. Vijayalakshmi Subramanian
5.	Grant-in-aid Sanctioned:	Rs. 5,00,000/- (Rupees Five lakh only)
6.	Amount to be released during the year 2019-20:	Rs. 5,00,000/- (Rupees Five lakh only)
7.	Sanctioned grant-in-aid is debitable to:	Major Head 601. 17 (a) Gen (GOC) Plan Head

- The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education, New Delhi on the Grant-in-aid bill and shall be disbursed to and credited to the account of Registrar/Director/Principal of the institute through RTGS.
- This grant-in-aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated and also being communicated in this letter.

The instructions/guidelines to be followed by College/Institution

1. Release of funds

- The Principal/Director of the institute and the Coordinator of the program are hereby requested to verify the correctness of the undermentioned bank account/ RTGS details submitted by them alongwith the Proposal/Estimated expenditure details, against which the grant is being released:

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAETS 6115N	CITY UNION BANK LTD	TIRUCHIRAPALLI MAIN BRANCH	23, Kalliamman Kull Street, Trichy	Saranathan College of Engineering	Saving Account	0230010001 38318	CIUB000 0023

In case of any omission the same should be reported to AICTE immediately.

AQIS Application ID : 1-4146853549

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SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPALLI - 12

Dr. D. VALAVAN B.E., M.Tech., Ph.D.
PRINCIPAL

08/01/2020

To

Prof. Dileep N. Malkhede

Advisor,

AICTE,

New Delhi - 110070

Sir,

Sub : Submission of acceptance letter with dates for organizing International Conference reg.-

Ref : F.No. 67 - 20/RIFD/GOC/Policy - 1/2018-2019 Dated: 15.11.2019

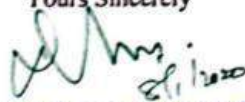
We are very grateful to you for sanctioning the payment of Rs.5,00,000/- to conduct two day International Conference under the scheme Grant for Organizing Conference (GOC). It is planned to conduct the Conference in the month of September tentatively during 23/09/2020 & 24/09/2020. This is for your kind information.

Thanking you


Coordinator

Dr. S. VIJAYALAKSHMI
ASSOCIATE PROFESSOR
DEPARTMENT OF EEE
SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPALLI, TRICHY - 12

Yours Sincerely


Dr. D. Valavan, M.Tech., Ph.D.,
Principal
Saranathan College of Engineering
Trichy - 12.

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SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
TIRUCHIRAPALLI - 620 012.

Date : 16.03.2019

Ref No : SCE/EEE/IEI Workshop/2018-2019/01

Submitted to : The Secretary, IEL-TLC

Submitted through: The HOD/EEE

Submitted by : Dr.S. Vijayalakshmi

Account settlement report for Twodsy All India Workshop titled "Design of Micro Grid and Grid integrated issues in Distributed Generation" on 06 & 07-03-2019.

Total Number of Registration - 30.

1. Registration amount received from the participant - Rs. 20,600

Expenditure Details

Bill No	Description	Amount (Rs.)
1	Conference Flex, Invitation etc.	
2	Certificate for participants	Rs. 1,250
3	Memento for Chief Guests	Rs. 624
4	Lunch and snacks for participants & Staff	Rs. 1,539
5,5A	Remuneration for the Resource Person	Rs. 21,914
6	Kit (File, Notepad and Pen)	Rs. 20,500
7,7A	Snacks for Resource Person	Rs. 4,910
8	Reception items	Rs. 616
Total amount		Rs. 51,653

Balance amount yet to receive from IEL = Rs. 51,653 - 20,600
= Rs. 31,053/-

(Handwritten signature)

Yours truly

(Handwritten signature)
(Dr.S. Vijayalakshmi)

REPORT OF ALL INDIA SEMINAR/WORKSHOP ORGANISED BY CENTRES / OVERSEAS CHAPTERS

Name of Centre / Overseas Chapter:		Tiruchirappalli Local Centre	
Title of Activity:		Design of Micro Grid and Grid integration issues in Distributed Generation	
Activity under Divisional Board		Electrical Division Board (ELDB)	
Date:	06-03-2019 & 07-03-2019	Venue:	Civil Seminar Hall, Saranathan College of Engineering



Photo of Inaugural Session with banner of IEI



Photo of Technical Session

<p>Day-1(Forenoon) Inaugural Session Inaugural programme, Keynote Address</p>	<p>Registration and Inaugural Session, Keynote address was delivered by Dr.N.Kumaresan, Chairman IEI-TLC. From 10.15 AM to 1.15 AM the session 1 handled by Dr.S.Senthilkumar, Asso. Prof/EEE, NIT, Trichy</p>
<p>Day-1(Afternoon) Technical Session I 1 Invited Lecture (about 1 hour duration) and minimum 4 papers or two invited lectures / presentations</p>	<p>Invited Lecture by:Dr.S.Senthilkumar, Associate Professor/EEE, National Institute of Technology, Trichy. Topic:Operation and Control of wind-driven Induction Generators Supplying Micro grids. Session 2 :Dr.P.Sivakumar, Associate Professor/EEE, Rajalakshmi Engineering College, Chennai. Topic : Grid Integration issues in Distributed Generation</p>
<p>Day-2 (Forenoon) Technical Session II 1 Invited Lecture (about 1 hour duration) and minimum 4 papers or two invited lectures / presentations</p>	<p>Invited Lecture by:Er.S.Selvakumar, Lead Engineer, ABB Pvt. Ltd, Chennai . Topic: Micro Grid Design using HOMER.</p>
<p>Day-2 (Afternoon) Technical Session III Minimum 2 papers or two invited lectures / presentations</p>	<p>Invited Lecture by :Er.S.Selvakumar, Lead Engineer, ABB Pvt. Ltd, Chennai. Topic :Islanded Micro Grid Design using HOMER, Cycle Charging Algorithm and Load Following Algorithm in HOMER. Sensitivity Analysis in HOMER, Multi Year Optimisation and Simulation of Brown field Projects with importing load profile.</p>
<p>Day-2 (Afternoon) Valedictory Session</p>	<p>Valedictory Address byDr.S.Dharmalingam, Former Chairman, IEI, Tiruchirappalli Local Centre</p>

Utilization Certificate

AICTE's Sanction Order No. 20/AICTE/RIED/RFS/(POLICY-IV) 31/2012-13
 Date: 3-9-2013

A. NON-RECURRING:

S.N O	List of Approved Equipment	List of equipments procured	Date of Purchase	Amount Sanctioned*	Amount Utilized (Item wise) (Rs)	Unspent Balance
1	PV SOLAR PANNEL	PV Panel with Battery Bank	31-03- 2014	4, 50, 000	330000/-	NIL
2	Battery Bank					
3	SENSORS	Irradiation Sensor-	28-08- 2014		119647/-	
		Voltage Sensor -	12-12- 2013		33548 /-	

* Amount sanction is not mentioned item wise in the sanction order

B. RECURRING:

Sl. No	Activities undertaken	Period	Amount Sanctioned*	Amount Utilized (Item wise)	Unspent Balance
1 year (2013-14)					
1	Purchase of Consumable items - Single Phase Multi Tap Inductor (6 NOS)	02-09- 2014	23,334 /-	6300 /-	NIL
2	Purchase of consumable items - DC Power supply PCB's	18-9- 2014		12600/-	
3	Conference Registration Fees (SEED Conference at IIT MADRAS)	19-08- 2014		5000/-	

II Year (2014-15)					
4	Purchase of PV cable accessories	30-7-2014	23,334 /-	2783 /-	NIL
5	Purchase of Resistors, IC's, diodes etc	23-10-2014		5123 /-	
6	Purchase of Miscellaneous Items for wiring PV cables from terrace to lab	2-4-2015		11327 /-	
7	Purchase of Lamps & other miscellaneous items	2-4-2015		4258 /-	
III Year (2015-16)					
8	Purchase of Resistors, IC's, diodes etc	21-1-2016	23,334 /-	13632 /-	
9	Purchase of wind emulator accessories	6-5-2016		10080 /-	

Total of A+B = Rs. 5,54,298

Certified that the grant has been utilized for the purpose for which it was sanctioned in accordance with the "Terms and Conditions" attached to the grant. If, as a result of check or audit objection some irregularity is noticed at a later stage, action will be taken to refund, adjust or regularize the amount objected to.

For M. RAJU & Co.,
CHARTERED ACCOUNTANTS

(A. KUMAR)
M.No: 026517

Signature of Chartered Accountant
Name of the CA: <u>A. KURAK</u>
Membership No: <u>026517</u>
Full Address of CA With Seal:
M. RAJU & Co., CHARTERED ACCOUNTANTS No. 9, Officers Colony, Puthur Trichy- 620 017.

Signature of Head of the Institution
Dr. D. VALAVAN, PRINCIPAL
Name and Designation
Full Address With Seal
Saranathan College of Engineering, Venkateshwara Nagar, Panjapur, Trichy- 620012, Tamilnadu.
PRINCIPAL Saranathan College of Engineering TRICHY - 12.

Date: 27.01.2017

Instrumentation and Control Engineering



Fwd: All India Workshop on “Nanosensors for Medical Applications”

Dr. M. Shanmugavalli ICE <shanmugavalli-ice@saranathan.ac.in>

To: "Mr. P. Aravind ICE" <aravind-ice@saranathan.ac.in>

----- Forwarded message -----

From: **Dharmalingam s** <sdharma59@gmail.com>

Date: Sun, 13 Oct 2019 at 19:30

Subject: All India Workshop on “Nanosensors for Medical Applications”

To: Dr. M. Shanmugavalli ICE <shanmugavalli-ice@saranathan.ac.in>

Cc: Kumaresan N. <nkumar@nitt.edu>, A Anand <a.anand@bhel.in>

Madam,

Approval for conducting
this workshop has been
received from IEI HQ.
Next activity is to finalise
the brochur

Pl. see the attached word file containing the draft of the brochure in three column format.
Corrections in the draft to be done are highlighted in yellow colour.
Please carry out the corrections and return the draft for further processing.

Regards,

Dharmalingam

SP/YO/040/2017(C)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(SEED Division)

Technology Bhavan,
New Mehrauli Road,
New Delhi-110016
Dated : 13/12/2018

ORDER

Sub:- Financial assistance for the project titled "Nano-sensor for fluid mass flow rate measurement for biomedical applications" sponsored to Dr. M.Shanmugavalli, Department of Instrument and Control Engineering, Saranathan College of Engineering, Venkateswara Nagar, Trichy-Madurai Main Road (NH 45 B), Edamalaipatti Pudur(Post), Panjappur, Thiruchirappalli - 620012, Tamil Nadu.

In continuation of this Department's Sanction Order dated 13.03.2018, sanction of the President is conveyed to the payment of Rs.3,59,995/- (Rupees Three Lakh Fifty Nine Thousand Nine Hundred Ninety Five only) to the Principal, Saranathan College of Engineering, Venkateswara Nagar, Trichy-Madurai Main Road (NH 45 B), Edamalaipatti Pudur(Post), Panjappur, Thiruchirappalli - 620012, Tamil Nadu being the second instalment of grant under the non-recurring grant for implementation of the said project during 2019-20. The details of which may be seen in the below given table:

Sl.No	Equipment details for 2 nd year	Amount
1.	Sensors and Instrumentation (10 Nos)	Rs. 2,00,000/-
2.	Fabrication of prototype equipment.	Rs. 1,60,000/-
	Total	Rs. 3,60,000/-

2. Sanction of the President is also conveyed for the carry forward of Rs. 5/- under the non-recurring grant from the last financial year to the current financial year 2019-20.

3. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned/ accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

4. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/ final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

5. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.

6. The grant-in-aid being released is subject to the condition that

(a) a transparent procurement procedure in line with the Provision of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.

(b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

Handwritten signature and date
13/12/2018

7. "In terms of Rule 230(8) of GRF 2017, the grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings, generated against released grant shall be remitted to Consolidated Fund of India, immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A Certificate to this effect shall have to be submitted along with statement of expenditure/Utilization Certificate for considering subsequent release of grant/closure of project account".

8. (a). DST reserves sole rights on the assets out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

(b). DST reserves rights to close the project activity any time based on the review of progress of the project.

(c). A prior intimation to DST by grantee is must before leaving the country for attending conference/availing any short term fellowship abroad during the project tenure.

9. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C & AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

10. Due acknowledgment of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

11. Failure to comply with the terms and condition of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

12. The expenditure involved is dubitable to Demand No.86, Department of Science & Technology for the year 2019-20:

3425	:	Other Scientific Research (Major Head)
60	:	Others
60.200	:	Assistance to Other Scientific Bodes (Minor Head)
70	:	Innovation, Technology Development and Deployment
70.00.35	:	Grants for Creation of Capital Assets for the year 2019-20 (Plan)
*(Previous: SSP-SEED-3425.60.200.08.11.35)		

13. The amount of **Rs.3,59,995/- (Rupees Three Lakh Fifty Nine Thousand Nine Hundred Ninety Five only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to Principal, Saranathan College of Engineering, Venkateswara Nagar, Trichy-Madurai Main Road (NH 45 B), Edamalaipatti Pudhur(Post), Panjappur, Thiruchirappalli - 620012, Tamil Nadu. The bank details for electronic transfer of funds through RTGS are given below:


Institution Account Name	Principal, Saranathan College of Engineering
Saving Bank Account Number	023001000138318
Name of Bank	City Union Bank Ltd
Branch Name	23, Kaliamman Koil Street, Opp. To Trichy Annadhana Samajam Tiruchirappalli-620 002
IFSC Code	CIUB0000023
MICR Code	620054002

Handwritten signature and date
13/12/2019

14. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 131 in the register of grants maintained in the Division for the scheme (Scheme for Young Scientist and Technologists –SYST).

15. This issues with the concurrence of IFD Vide their Concurrence Dy. No. C/4617/IFD/2019-20 dated 13th December, 2019.


16. Niti Aayog Darpan Unique I.D. of the institute is 'TN/2017/0172903'.


(Dr. Rashmi Sharma) 13/12/2019
Scientist-'E'
011-26590541

To
The Pay and Accounts Officer,
Department of Science & Technology,
New Delhi.

Copy for information and necessary action to: -

1. Cash Section (3 copies) for making the payment to the grantee.
2. Account Section.
3. Director of Audit, (Scientific Department), AGCR Building, New Delhi – 110 002.
4. Principal, Saranathan College of Engineering, Venkateswara Nagar, Trichy-Madurai Main Road (NH 45 B), Edamalaipatti Pudhur(Post), Panjappur, Thiruchirappalli - 620012, Tamil Nadu.
5. Dr. M.Shanmugavalli, Department of Instrument and Control Engineering, Saranathan College of Engineering, Venkateswara Nagar, Trichy-Madurai Main Road (NH 45 B), Edamalaipatti Pudhur(Post), Panjappur, Thiruchirappalli - 620012, Tamil Nadu.
6. Head (SEED)
7. Sanction Folder


(Dr. Rashmi Sharma) 13/12/2019
Scientist-'E'
011-26590541

SP/YO/040/2017(G)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(SEED Division)

Technology Bhavan,
New Mehrauli Road
New Delhi-110016
Dated:13/12/2019

ORDER

Sub:- Financial assistance for the project titled "Nano-sensor for fluid mass flow rate measurement for biomedical applications" sponsored to Dr. M.Shanmugavalli, Department of Instrument and Control Engineering, Saranathan College of Engineering, Venkateswara Nagar, Trichy-Madurai Main Road (NH 45 B), Edamalaipatti Pudhur(Post), Panjappur, Thiruchirappalli - 620012,Tamil Nadu.

In continuation of this Department's Sanction Order dated 13.03.2018, sanction of the President is conveyed to the payment of **Rs.69,000/-** (Rupees Sixty Nine Thousand only) to the Principal, Saranathan College of Engineering, Venkateswara Nagar, Trichy-Madurai Main Road (NH 45 B), Edamalaipatti Pudhur(Post), Panjappur, Thiruchirappalli - 620012,Tamil Nadu being the second instalment of grant for implementation of the said project during 2019-20.

2. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned/ accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

3. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/ final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

4. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.

5. The grant-in-aid being released is subject to the condition that

(a) a transparent procurement procedure in line with the Provision of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.

(b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

6. "In terms of Rule 230(8) of GRF 2017, the grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings, generated against released grant shall be remitted to Consolidated Fund of India, immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A Certificate to this effect shall have to be submitted along with statement of expenditure/Utilization Certificate for considering subsequent release of grant/closure of project account".


13/12/2019

7. (a). DST reserves sole rights on the assets out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

(b). DST reserves rights to close the project activity any time based on the review of progress of the project.

(c). A prior intimation to DST by grantee is must before leaving the country for attending conference/availing any short term fellowship abroad during the project tenure.

8. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C & AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

9. Due acknowledgment of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

10. Failure to comply with the terms and condition of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

11. The expenditure involved is dubitable to Demand No.86, Department of Science & Technology for the year 2019-20:


3425	:	Other Scientific Research (Major Head)
60	:	Others
60.200	:	Assistance to Other Scientific Bodes (Minor Head)
70	:	Innovation, Technology Development and Deployment
70.00.31	:	Grants-in-aid General for the year 2019-20 (Plan)
*(Previous: SSP-SEED-3425.60.200.08.11.31)		

12. The amount of **Rs.69,000/- (Rupees Sixty Nine Thousand only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to Principal, Saranathan College of Engineering, Venkateswara Nagar, Trichy-Madurai Main Road (NH 45 B), Edamalaipatti Pudhur(Post), Panjappur, Thiruchirappalli - 620012, Tamil Nadu. The bank details for electronic transfer of funds through RTGS are given below:

Institution Account Name	Principal, Saranathan College of Engineering
Saving Bank Account Number	023001000138318
Name of Bank	City Union Bank Ltd
Branch Name	23, Kaliamman Koil Street, Opp. To Trichy Annadhana Samajam Tiruchirapalli-620 002
IFSC Code	CIUB0000023
MICR Code	620054002

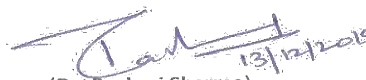
14. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. **130** in the register of grants maintained in the Division for the scheme (Scheme for Young Scientist and Technologists –SYST).

15. This issues with the concurrence of IFD Vide their Concurrence Dy. No. C/4616/IFD/2019-20 dated 13th December, 2019.


13/12/2019

-3-


16. Niti Aayog Darpan Unique I.D. of the institute is 'TN/2017/0172903'.


(Dr. Rashmi Sharma)
Scientist-'E'
011-26590541

To
The Pay and Accounts Officer,
Department of Science & Technology,
New Delhi.

Copy for information and necessary action to: -

1. Cash Section (3 copies) for making the payment to the grantee.
2. Account Section.
3. Director of Audit, (Scientific Department), AGCR Building, New Delhi – 110 002.
4. Principal, Saranathan College of Engineering, Venkateswara Nagar, Trichy-Madurai Main Road (NH 45 B), Edamalaipatti Pudhur(Post), Panjappur, Thiruchirappalli - 620012, Tamil Nadu.
5. Dr. M. Shanmugavalli, Department of Instrument and Control Engineering, Saranathan College of Engineering, Venkateswara Nagar, Trichy-Madurai Main Road (NH 45 B), Edamalaipatti Pudhur(Post), Panjappur, Thiruchirappalli - 620012, Tamil Nadu.
6. Head (SEED)
7. Sanction Folder


(Dr. Rashmi Sharma)
Scientist-'E'
011-26590541

Information Technology

REPORT OF ALL INDIA WORKSHOP ORGANISED BY CENTRES / OVERSEAS CHAPTERS

Name of Centre:	Tiruchirappalli Local Centre
-----------------	------------------------------

Title of Activity:	One day workshop on “Machine Learning Techniques using PyTorch”		
Activity under Divisional Board	Computer Engineering Division		
Date:	05-10-2019	Venue:	J.S.Block Seminar Hall, Saranathan College of Engineering, Tiruchirappalli



Photo of Inaugural Session and group photo

Photo of Technical Session and valedictory

WORKSHOP SCHEDULE

09.00 a.m. – 09.30 a.m.	Registration	
09.30 a.m. – 10.00 a.m.	Inauguration	
10.00 a.m. – 11.30 a.m.	Detailed discussion on AI machine learning, deep learning using PyTorch- Keras Platform	
	Mr. Salai Deva Thirumani, Techno Commercial Engineer, AIDELTECZ , Pudukottai	
11.30 a.m. – 11.45 a.m.	Tea Break	
11.45 a.m. – 01.15 p.m.	Getting started with Packages installation, discussion on dataset creation, loss error, learning rate, gradient descent, stochastic gradient descent and execution of MNIST in PyTorch.	
	Mr. Salai Deva Thirumani, Techno Commercial Engineer, AIDELTECZ , Pudukottai	
01.30 p.m – 02.00 p.m.	Lunch	
02.00 p.m. – 03.15 p.m.	Introduction to CNN and custom dataset creation, Model creation, Implementation of customized object detection using keras with leaner and VGG net YOLO model .Implementation of interface part and detection of object using CAFFE –	
	Mr. Salai Deva Thirumani, Techno Commercial Engineer, AIDELTECZ , Pudukottai	
03.15 p.m. – 03.30 p.m.	Tea Break	
03.30 p.m. – 04.30 p.m.	Demo on autonomous car creation, – Path and autonomous navigation of car based on environment.	
	Mr. Salai Deva Thirumani, Techno Commercial Engineer, AIDELTECZ , Pudukottai	
04.30 p.m. – 05.00 p.m.	Valediction	

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



STTP- Sanction Letter

Ref. No. 34-65/331/RIFD/STTP/Policy-1/2018-19

Date _____

To

The Drawing and Disbursing Officer,
All India Council for Technical Education,
Nelson Mandela Marg,
Vasant Kunj, New Delhi - 110070

Sub: Release of grant for conduct of Short Term Training Programme (STTP) under AQIS 2018-19 during the financial year 2019-20- reg.

Sir,

This is to convey the sanction of the Council for payment of **Rs. 300000 /- (Rupees Three Lakh Only)** for conduct of Short Term Training Program as per details given below:-

1.	Name and address of the beneficiary University / Institution	SARANATHAN COLLEGE OF ENGINEERING , VENKATESWARA NAGAR EDAMALAIPATTIPUDUR POST PANJAPPUR VILLAGE SRIRANGAM TALUK TIRUCHIRAPPALLI-620012 Tamil Nadu
2.	Permanent ID of Institute	1-4190371
3.	Institute type	Unaided - Private
4.	Name of Coordinator	Dr. SUMATHI RATHNAM
5.	Amount sanctioned	Rs. 300000/-
6.	Amount to be released	Rs.300000/- Full & final payment
7.	Head of account.	601.15(a) Gen. Short Term Training Programme (Plan)
8.	The authorized officer in whose favour Cheque/ Demand Draft/ RTGS is to be made	REGISTRAR / DIRECTOR / PRINCIPAL
9.	Title of the programme	BIG DATA ANALYTICS

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the institute through RTGS.
2. This grant-in-aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

Mechanical Engineering



The Institution of Engineers (India)

AN ISO 9001: 2015 CERTIFIED ORGANISATION
(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)
8 GOKHALE ROAD, KOLKATA - 700 020



A Century of Service to the Nation

Ref: R.4/2/UG/2019-20/UG2020057

Date: 11 June 2020

The Principal
Saranathan College of Engineering
Trichy-madurai road Panjappur
Venkateswara Nagar, Edamalaipatti Pudur
Tiruchirappalli 620012 Tamil Nadu

Dear Sir/Madam,

Sub: Intimation of Approval for R&D Project entitled: "Comprehensive Analysis of New Composition Cast Single Point Cutting Tool in Machining Various Materials"

This has reference to your subject project proposal submitted to The Institution of Engineers (India) for funding under IEI R&D Grant in Aid Scheme.

We are pleased to inform that the same has been approved by the competent authority as per the details mentioned below:

Project ID:	UG2020057	Category:	UG	Financial Year:	2019-20
Guide(s):	A Saravanan	Applicant(s):	1. A R Subash 2. R S Sarath Kumar 3. M Zeshan Ahamed		
College / Institute / University:	Saranathan College of Engineering	Total Grant Sanctioned:	₹20,000/-	Number of Instalment(s):	1

Kindly quote your project ID all your future correspondence.

Please note that the Terms & Conditions of the Grant (Copy enclosed) should be strictly followed. On successful completion of the project, the following documents are to be furnished: (1) hard and soft copy of the Project Report, (2) hard/soft copy of the Project Completion Report, (3) two hardcopies of the Utilization Certificates, (4) soft copy of the filled-in R&D Compendium pro-forma (in .doc/.docx format) and (5) an Audio/Visual Demonstration of the Prototype/Model/Process in CD or Google Drive File Link. The submission will be treated as successful and complete only on receipt of the above documents.

Kindly acknowledge receipt through email id research@ieindia.org.

Thanking you.

Yours faithfully;

(Dr. N. Sengupta)
Director (Technical)

For Secretary & Director General

End: as stated.

cc: Guide(s) – A Saravanan



The Institution of Engineers (India)

AN ISO 9001: 2015 CERTIFIED ORGANISATION
(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)
II GOKHALE ROAD, KOLKATA - 700 020



A Century of Service to the Nation

Ref: R.4/2/IG/2019-20/IG2070046

Date: 31 December 2019

The Principal
Saranathan College of Engineering
Trichy-madurai road Panjappur
Venkateswara Nagar, Edamalaipatti Padur
Tiruchirappalli 620017, Tamil Nadu

Dear Sir/Madam,

Sub: Intimation of Approval for R&D Project entitled: "Performance Monitoring and Controlling of Shell and Tube Heat Exchanger using Internet of Things"

This has reference to your subject project proposal submitted to The Institution of Engineers (India) for funding under RI R&D Grant in Aid Scheme.

We are pleased to inform that the same has been approved by the competent authority as per the details mentioned below:

Project ID:	IG2020046	Category:	IG	Financial Year:	2019-20
Guide(s):	1. Shiva Ranjani R S 2. Vigneshwar P	Applicant(s):	1. J Vignesh 2. P Shiva Sankar		
College / Institute / University:	Saranathan College of Engineering	Total Grant Sanctioned:	₹30,000/-	Number of Instalment(s):	1

Kindly quote your project ID all your future correspondence.

Please note that the Terms & Conditions of the Grant (Copy enclosed) should be strictly followed. On successful completion of the project, the following documents are to be furnished: (1) hard and soft copy of the Project Report, (2) hard/soft copy of the Project Completion Report, (3) two hardcopies of the Utilization Certificates, (4) soft copy of the S&D in R&D Compendium pro-forma (in .doc/ .docx format) and (5) an Audio/Visual Demonstration of the Prototype/Model/Process in CD or Google Drive File Link. The submission will be treated as successful and complete only on receipt of the above documents.

Kindly acknowledge receipt through email id research@ieindia.org.

Thanking you,

Yours faithfully,

(Dr. N Sengupta)
Director (Technical)
For Secretary & Director General

Encl: as stated.

cc: Guide(s) – 1. Shiva Ranjani R S
2. Vigneshwar P



The Institution of Engineers (India)

A Scientific and Industrial Research Organisation (SIRO)
Recognised by Government of India, Ministry of Science and Technology,
Department of Scientific and Industrial Research

Certificate of Project Completion

This is to certify that the PG project entitled "**Experimental Investigation on Solar Hybrid Heater System**" bearing Project ID **PG2019009** has been successfully carried out and completed by:

Aravind Kannan S. AMIE

of

**Saranathan College of Engineering,
Institutional Member of IEI**

under the guidance of

Sidharan M. AMIE

during the FY 2018-19 through funding under IEI R&D Grant-in-Aid Scheme.



Secretary & Director General



The Institution of Engineers (India)
Technical Department
R&D Grant-in-aid Scheme

PROJECT COMPLETION REPORT

1. Project I.D. : UG2019029
2. Project Title : Experimental Analysis, Evaluation and Optimization of Friction
Welding Parameters on EN 353 Alloy
3. Name of the Investigator : A. Rakesh, W. Robinson, C. Naveen
 - a. E-mail : rakesh.angaraj@gmail.com
 - b. Contact Address : Saranathan College of Engineering, Venkateswara Nagar, Panjappur,
Tiruchirappalli – 620012
 - c. Mobile No. : 98945 91653
4. Name of the Institution of which
Investigator is attached : Saranathan College of Engineering
5. Name and Designation
of the Guide / supervisor : Dr. N. Baskar, Professor and Mr. S. Karthikeyan, Assistant Professor
 - a. E-mail : baskarnaresh@yahoo.co.in
 - b. Mobile No. : 94431 92729
6. Name of the Director /
Principal of the Institution : Dr. D. Valavan
7. Date of Release of R & D Grant : October 2018
8. Date of Commencement of
the Project : 19-01-2019
9. Amount of R & D Grant : Rs. 15,000/-
10. Date of Receipt of R & D Grant : 24-12-2018
11. How much work is yet to be
completed with the reason of delay : Nil
 - a. Percentage of work completed : 100%
 - b. Amount utilized till date : Rs. 16,017/-

Continued.....



The Institution of Engineers (India)
Technical Department
R&D Grant-in-aid Scheme

12. How much work is yet to be completed with the reason of delay : Nil
- a. Work yet to be completed with details :
b. Reason for delay :
13. Probable date of completion of the project : Nil
14. Amount of matching grant : Rs. 15,000/-
- a) Name and address of the organization : Saranathan College of Engineering, Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012
- b) Date of receipt : 24-12-2018
- c) Amount received : Rs. 15,000/-
- d) Amount utilised till date : Rs. 16,017/-
15. Name of the organizations providing support to the project:
- a. Name of the organization : Saranathan College of Engineering, Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012
- b. Nature of support e.g. financial, technical and infrastructural : Technical and Laboratory support
- c. Support yet to be received : Nil
16. Project Achievements in brief :
- Literature review has been done for friction welding input process parameters.
 - 27 friction welded joints are made at WRI based on the recommended input process parameters.
 - The welded joints are tested for the output responses like axial shortening, hardness and temperature.
 - To maximize the output responses and to improve the quality of the welded joints, Design of Experiment is used to obtain the optimal input process parameters.
17. Expected beneficiaries of the project :
- These investigational studies helps in the applications of EN 353 alloy steel in the field of Automobile for manufacturing camshaft, gears, gudgeon pin, shafts, pinions and other parts.
 - The best results are to be recommended to welding industries. Further, the investigation can be extended to different combination of work piece materials.
18. Any other information to be furnished regarding progress of project :
- Best paper award – Paper presentation in National level Conference on “Cutting Edge technologies in Electrical, Communication and Soft Computing techniques” (NCCEECS’19) organized by Saranathan College of Engineering, Trichy on 14th March 2019.
 - Paper presentation in International Conference on “Recent Trends in Nanomaterials for Energy, Environmental and Engineering” (ICONEEEA-2K19) organized by K.Ramakrishnan College of Technology, Trichy on 14th & 15th March 2019.

Continued.....



The Institution of Engineers (India)
Technical Department
R&D Grant-in-aid Scheme

PROJECT I.D. UG2019029

CERTIFICATE

Certified that:

1. The above progress report is correctly and duly audited : Yes
2. The necessary infrastructure is available for completion of the project by the due date : Yes
3. The balance amount is readily available for completion of the project by the due date : Nil
4. Interim technical report on the project has been enclosed : Yes
5. The project will be completed by the due date : Yes

1. *A. Rakesh*
2. *W. Robinson*
3. *C. Naveen*
Signature of the Investigator

1. A. RAKESH
2. W. ROBINSON
3. C. NAVEEN

1. *N. Baskar*
2. *S. Karthikeyan*
Signature of the Guide

1. Dr. N. BASKAR
2. S. KARTHIKEYAN

[Signature]
Signature & Seal of the Director/Principal
PRINCIPAL
Saranathan College of Engineering
TRICHY - 12.

Dr. N. BASKAR, M.E., Ph.D.,
Supervisor Registration No. 1820047
Professor/Dept. of Mechanical Engineering
Saranathan College of Engineering
Tiruchirappalli - 620012.





The Institution of Engineers (India)
Technical Department
R&D Grant-in-aid Scheme

UTILISATION CERTIFICATE

(To be submitted in duplicate)

[FOR THE FINANCIAL YEAR - (ENDING 31ST MARCH)]

1. Project I.D : UG2019029
2. Title of the Project : Experimental Analysis, Evaluation and Optimization of Friction Welding Parameters on EN 353 Alloy
3. Name of the Institution : Saranathan College of Engineering
4. Name of the Project Guide (PG) : Dr. N. Baskar and Mr. S. Karthikeyan

UTILISATION CERTIFICATE

Certified that out of Rs. 15,000/- of grants-in-aid sanctioned during the year 2018 -2019 in favour of The Principal, Saranathan College Of Engineering under IEI's letter No. R.4/2/UG/2018-19/RDUG2018032 dated 24-12-2018 and Rs. 15,000/-. A sum of Rs. 16017/- has been utilised for the purpose of Grant-in-aid scheme – UG level project for which it was sanctioned and that the balance of Rs. Nil remaining unutilised at the end of completion has been returned to IEI (vide Cheque/DD No. Nil dated Nil).

1. *N. Baskar* 11/14/19
2. *S. Karthikeyan*
Signature of Principal Guide
with date & seal

1. DR. N. BASKAR
2. S. KARTHIKEYAN

Dr. N. BASKAR, M.E., Ph.D.,
Supervisor Registration No. 1820047
Professor, Dept. of Mechanical Engineering
Saranathan College of Engineering
Tiruchirappalli - 620012.

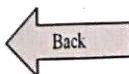
[Signature] 11/14/19
Signature of Registrar/
Director /
Principal with date & seal

PRINCIPAL
Saranathan College of Engineering
TRICHY - 12.

[Signature]
Accounts Officer of the
Institute with date & seal



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ABOUT THE COLLEGE

Saranathan College of Engineering was founded in the year 1998 by "Vidya Seva Ratnam", "Guru Seva Mani" Auditor Sri.K. Santhanam . It was so named in respectful memory of his Guru Principal Saranathan, the greatest ever Principal of National College Tiruchirappalli. It is a self-financing college approved by AICTE and affiliated to Anna University, Chennai. CSE, EEE, ECE and Mechanical departments are permanently affiliated to Anna University, Chennai. All the eligible 6 UG branches are accredited by NBA, New Delhi

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering Department was started in the year 2005. The department offers an undergraduate programme - B.E. (Mechanical Engineering) with sanctioned intake of 120 students and a postgraduate programme - M.E (Thermal Engineering) with a sanctioned intake of 18 students. The department is accredited by NBA, New Delhi (since June 2018) in TIER II category. Also the department is a recognized research centre of Anna University, Chennai and it has state-of-the-art laboratories, CAD centre with advanced software, a department library, experienced and expert faculty members having doctoral degrees, outstanding research publications in peer reviewed International/National Journals. The department's mission is to generate employable mechanical engineering graduates with knowledge, skills and ethics; provide them with the professional and soft skills necessary to lead a successful career and peaceful life and equip them with the confidence necessary to contribute to society by performing in their respective chosen fields of endeavour.

PROGRAMME EVALUATION COMMITTEE (PEC)

PATRON:

Shri. S.Ravindran - Secretary

CHAIRPERSON:

Dr. D. Valavan - Principal

CO-CHAIRPERSON:

Dr. G. Jayaprakash - Professor & Head,
Mechanical Engineering.

COORDINATOR:

Dr. N. Baskar - Professor, Mechanical Engineering

PEC MEMBER

Dr. C.Krishnakumar - Professor & Head, Department of
Electrical and Electronics Engineering.

ORGANIZER:

Dr. R. Rekha - Associate Professor,
Mechanical Engineering.

CONVENER:

Mr. A. Saravanan - Assistant Professor,
Mechanical Engineering.

ADDRESS FOR CORRESPONDENCE

Mr. A. Saravanan (+91 9488482091)
Assistant Professor
Department of Mechanical Engineering
Saranathan College of Engineering,
Panjappur, Tiruchirappalli, Tamil Nadu 620012
e-mail: saravanan-mech@saranathan.ac.in

AICTE



Sponsored

Two Weeks Faculty Development Programme
ON

Cutting Edge Technology and
Contemporary Research In
Mechanical Engineering

10th to 22nd June 2019



Organized by
Department of Mechanical Engineering

SARANATHAN COLLEGE OF ENGINEERING

Accredited by NBA, New Delhi
(Approved by AICTE, New Delhi and
affiliated to Anna University, Chennai)

www.saranathan.ac.in

FACULTY DEVELOPMENT PROGRAM**FORMAT FOR UTILIZATION CERTIFICATE UNDER THE SCHEME
FACULTY DEVELOPMENT PROGRAM**

AICTE File NO. : F.No.34-55/209/RIFD/FDP/POLICY-1/2017-18,
Dated: 09.01.2019

Name of Coordinator : Dr.N.Baskar

Dates of the programme : 10.06.2019 & 22.06.2019

Title of the Seminar : Two Weeks Faculty Development Program on Cutting Edge
Technology and Contemporary Research in Mechanical
Engineering.

S.NO	Letter No. and date	Amount	Certified that out of Rs6,47,000 of grants-in-aid sanctioned during the year 2018-2019 in favour of Principal under this Institution Letter No F.No.34-55/209/RIFD/FDP/POLICY-1/2017-18, Dated: 09.01.2019 given in the margin a sum Rs 6,47,000 has been utilized for the purpose of Faculty Development Program for which it was sanctioned and that the balance of Rs Nil remaining unutilized at the end of the year has been surrendered to the All India Council for Technical Education.
1(a)	F.No.34-55/209/RIFD/FDP/POLICY-1/2017-18, Dated: 09.01.2019	Rs.6,47,000.00	
(b)	Grant received	Rs.6,47,000.00	
(c)	Balance to be Released by AICTE	Nil	

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 utilized for the purpose for which it was sanctioned.

1. Boarding and Lodging to the Participants
2. Honorarium to Resource Persons
3. TA/ DA to Resource Persons including two outstation resource persons
4. Reprographic charges of learning materials

N. B. Baskar
Name & Signature of the Coordinator
with seal

Dr. N. BASKAR, M.E., Ph.D.,
Supervisor Registration No. 1820047
Professor Dept. of Mechanical Engineering
Saranathan College of Engineering,
Trichy - 12.

D. D. Lalavan
Name & Signature of the Head of the
Institution

Dr. D. D. Lalavan, M.Tech., Ph.D.
Principal
Saranathan College of Engg
Trichy - 12.

Signature (with seal) of the Finance Officer /
Auditor/Accounts Officer/ Certified by CA with her/his Membership No. & Full Postal
Address.



For M. RAJU & Co.,
CHARTERED ACCOUNTANTS

M. RAJU
M. No. 926547
PROPRIETOR

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI - 600 025

STUDENT PROJECT SCHEME 2018 - 2019

UTILISATION CERTIFICATE

(TWO COPIES)

1. Name of the guide and address : Dr. N. Baskar/Professor
Dr. M. Ganesan/Assistant Professor
Department of Mechanical Engineering
Saranathan College of Engineering
Venkateswara Nagar
Panjappur
Tiruchirappalli - 620 012
2. Name of the student(s) : Mr. S. Bilal Ahamed
Mr. R. Lavanyan
Department of Mechanical Engineering
Saranathan College of Engineering
Venkateswara Nagar
Panjappur
Tiruchirappalli - 620 012
3. Title of the project : Design and Fabrication of Single Point
Composite Tool for Machining Various
Materials
4. Project code : EME-069

It is certified that a sum of Rs. 7,500/- (Rupees Seven Thousand and Five Hundred Only) Sanctioned by the council for carrying out above mentioned student project has been utilized for the purpose for which it was sanctioned and sum of Rs. Nil remaining unutilized is refunded.

1.  Signature of the Guide
2.  Signature of the HOD
3.  Signature of the PRINCIPAL

1. Dr. N. BASKAR, M.E., Ph.D.,
Supervisor Registration No. 1820047
Professor/Dept. of Mechanical Engineering
Saranathan College of Engineering
Tiruchirappalli - 620012.

Head of the Department
Mechanical Engineering
Saranathan College of Engineering
Tiruchirappalli - 620 012.

With SEAL
PRINCIPAL
Saranathan College of Engineering
TRICHY - 12

PROJECT I.D. UG2017020

CERTIFICATE

Certified that:

1. The above progress report is correctly and duly audited.
2. The necessary infrastructure is available for completion of the project by the due date.
3. The balance amount is readily available for completion of the project by the due date.
4. Interim technical report on the project has been enclosed.
5. The project will be completed by the due date.

1. *[Signature]*

2. *[Signature]*

3. *[Signature]*

Signature of the Investigator

1. P. Prabhakaran

2. M. Manoj

3. E. Kumaravel

1. *[Signature]*

2. *[Signature]*

Signature of the Guide

1. Dr. N. Baskar

2. Dr. M. Srinivasan

[Signature]

Signature of the Director /Principal

PRINCIPAL
Saranathan College of Engineering
TRICHY - 12

Dr. N. BASKAR, M.E., Ph.D.,
Superior Registration No. 1.0047
Professor/Dept. of Mechanical Engineering
Saranathan College of Engineering
Trichy - 620 012

ABOUT THE COLLEGE

Saranathan College of Engineering was founded by "Vidya Seva Ratnam", "Guru Seva Mani" Auditor Sri. K. Santhanam in the year 1998. It was so named in respectful memory of his Guru Principal Saranathan, the greatest ever Principal of National College, Tiruchirappalli. It is a self-financing college approved by AICTE and affiliated to Anna University, Chennai. Civil, CSE, ECE, EEE, ICE, IT and Mechanical Engineering departments are affiliated to Anna University, Chennai. All the eligible 6 UG branches are accredited by NBA, New Delhi.

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was started in the year 2005. The department offers an undergraduate programme B.E. Mechanical Engineering with sanctioned intake of 120 students and a postgraduate programme M.E Thermal Engineering with a sanctioned intake of 18 students. The department is accredited by NBA, New Delhi (since June 2018) in TIER II category. Also the department is a recognized research centre of Anna University, Chennai and it has state-of-the-art laboratories, CAD centre with advanced software, a department library, experienced and expert faculty members having doctoral degrees, outstanding research publications in peer reviewed International / National journals. The department's mission is to generate employable mechanical engineering graduates with knowledge, skills and ethics; provide them with professional and soft skills necessary to lead a successful career and peaceful life and equip them with the confidence necessary to contribute to society by performing in their respective chosen fields of endeavour.

PROGRAMME EVALUATION COMMITTEE (PEC)

PATRON:

Sri. S. Ravindran
Secretary

CHAIRPERSON:

Dr. D. Valavan
Principal

COORDINATOR:

Dr. G. Jayaprakash
Professor & Head,
Department of Mechanical Engineering.

PEC MEMBER:

Dr. C. Krishnakumar
Professor & Head, Department of
Electrical and Electronics Engineering.

ORGANIZER:

Dr. M. R. Anantha Padmanaban
Associate Professor,
Department of Mechanical Engineering.

CONVENER:

Dr. M. Ganesan
Assistant Professor,
Department of Mechanical Engineering.

ADDRESS FOR CORRESPONDENCE:

Mr. S. Karthikeyan (+91 93440 80099)
Assistant Professor
Department of Mechanical Engineering
Saranathan College of Engineering
Panjappur, Tiruchirappalli,
Tamil Nadu - 620012.
Email: karthikeyan-mech@saranathan.ac.in

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SARANATHAN COLLEGE OF ENGINEERING**

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affiliated to Anna University, Chennai)
www.saranathan.ac.in

The Institution of Engineers (India)
 Technical Department
The Institution of Engineers (India) R&D Grant-in-aid Scheme

UTILISATION CERTIFICATE

(To be submitted in duplicate)

[FOR THE FINANCIAL YEAR - (ENDING 31ST MARCH)]

1. Project I.D	: RDUG2017035
2. Title of the Project	: EXPERIMENTAL INVESTIGATION ON HYBRID FLOW HEAT EXCHANGER
3. Name of the Institution	: SARANATHAN COLLEGE OF ENGINEERING
Name of the Project	
4. Guide (PG)	: SRIDHARAN M & VIGNESHWAR P

UTILISATION CERTIFICATE

Certified that out of Rs 15,000 of grants-in-aid sanctioned during the year 2017-2018 (March) in favour of SARANATHAN COLLEGE OF ENGINEERING under IEI's letter No. R.4/2/UG/2017-18/RDUG2017035 dated 06/04/2018 and Rs.15000. A sum of Rs.15,000 has been utilised for the purpose of procurement of raw material, fabrication of heat exchanger components and erection of heat exchanger for which it was sanctioned and that the balance of Rs.-NIL- remaining unutilised at the end of completion has been returned to IEI (vide Cheque/DD No. -Not Applicable- dated -Not Applicable-).

1. M. Sri
 [M. SRIDHARAN]
 2. Vigneshwar
 [P. VIGNESHWAR]

Signature of PG with date

[Handwritten Signature]
 30/6/2018

Signature of Registrar/
 Director /
 Principal with date & seal

PRINCIPAL
 Saranathan College of Engineering
 TRICHY - 12.

[Handwritten Signature]
 30/6/2018
 (V. KRISHNAN SANKAR)

Accounts Officer of the
 Institute with date & seal

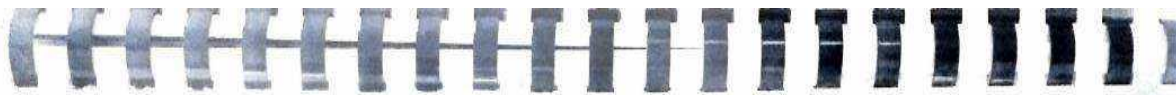


The Institution of Engineers (India)
Technical Department
The Institution of Engineers (India) R&D Grant-in-aid Scheme

PROJECT COMPLETION REPORT

1. Project I.D. : RDUG2017035
2. Project Title : EXPERIMENTAL INVESTIGATION ON HYBRID FLOW HEAT EXCHANGER
3. Name of the Investigator:
 1. VINITH KUMAR V (Principal Investigator)
 2. NESAN K (Co-Investigator)
 3. SHARAN S (Co-Investigator)
 - a. E-mail: vinithv97@gmail.com c. Mobile No. : 9626991789
 - b. Contact Address : 382,TPT Complex, Salai Street, Ayyampettai, Thanjavur-614201
4. Name of the Institution of which Investigator is attached:

SARANATHAN COLLEGE OF ENGINEERING
5. Name and Designation of the Guide / supervisor:
 1. Principal Guide: SRIDHARAN M / Assistant Professor / Mechanical
 2. Co- Guide: VIGNESHWAR P / Assistant Professor / Mechanical
 - a. E-mail: sridhudiya@gmail.com b. Mobile No.: 9942345900
6. Name of the Director / Principal of the Institution: Dr. D.VALAVAN
7. Date of Release of R & D Grant : 31/03/2018
8. Date of Commencement of the Project : 10/04/2018
9. Amount of R & D Grant : Rs 15,000
10. Date of Receipt of R & D Grant : 06/04/2018
11. How much work is yet to be completed with the reason of delay: Full Work Completed
 - a. Percentage of work completed : 100% of work completed
 - b. Amount utilized till date : Rs 15,000 (Full Amount Utilized)



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ORGANIZING COMMITTEE

PATRON:

Shri. S.Ravindran
Secretary

CO-PATRON:

Prof. V.Nagarajan
Director

CHAIRMAN:

Dr. D. Valavan
Principal

CO-CHAIRMAN:

Dr. G. Jayaprakash
Professor & Head,
Department of Mechanical Engineering.

COORDINATOR:

Dr. N. Baskar
Professor,
Department of Mechanical Engineering.

CONVENER:

Mr. A. Saravanan
Asst. Professor,
Department of Mechanical Engineering.

ADDRESS FOR COMMUNICATION:

A. Saravanan (+91 9483482091)
Department of Mechanical Engineering
Saranathan College of Engineering,
Venkateswara Nagar, Madurai Main Road,
Panjappur, Tiruchirappalli,
Tamil Nadu 620012

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SEMINAR GRANT

Annexure - II

**FORMAT FOR UTILIZATION CERTIFICATE UNDER THE SCHEME
SEMINAR GRANT
(FINANCIAL YEAR 2016 - 2017)**

AICTE File NO. : F.No.7-79/RIFD/SG/POL-1/2016-17, Dated: 08.06.2017
 Name of Coordinator : **Dr.N.Baskar**
 Dates of the programme : 16.11.2017 & 17.11.2017
 Title of the Seminar : **Application of Intelligent Techniques in Manufacturing Process**

S.NO	Letter No. and date	Amount	
(a)	Date of Offer Letter F.No.7-79/RIFD/SG/POL-1/2016-17 Dated: 08.06.2017	Rs.1,00,000.00	Certified that out of Rs1,00,000 of grants in-aid sanctioned during the year 2016 2017 in favour of Principal under the Institution Letter No F.No.7 79/RIFD/SG/POL-1/2016-17, Dated 08.06.2017 given in the margin a sum R 1,00,000 has been utilized for the purpose of SEMINAR GRANT for which i was sanctioned and that the balance of R Nil remaining unutilized at the end o the year has been surrendered to the AI India Council for Technical Education
(b)	Grant received	Rs.50,000.00	
(c)	Balance to be Released by AICTE	Rs.50,000.00	

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 utilized for the purpose for which it was sanctioned:

1. Boarding and Lodging to the Participants
2. Honorarium to Resource Persons
3. TA/ DA to Resource Persons including two outstation resource persons
4. Reprographic charges of learning materials

Name & Signature of the Coordinator with seal

DR.N.BASKAR, M.E., Ph.D.,
 Supervisor Registration No. 1328947
 Professor/Dept of Mechanical Engineering
 Saranathan College of Engineering
 Tirunelveli - 627 017

Name & Signature of the Head of the Institute with seal

Dr. D. Valavan, M.Tech., Ph.D.,
 Principal
 Saranathan College of Engineering
 Trichy - 12.

Signature (with seal) of the Finance Officer / Auditory accounts Officer/ Certified by CA with her/his Membership No. & Full Postal Address.

M. RAJU & CO.
 CHARTERED ACCOUNTANTS

M. RAJU & CO.
 CHARTERED ACCOUNTANTS
 12, S. S. ROAD,
 TIRUNELVELI - 627 017

12. How much work is yet to be completed with the reason of delay: Nil

- a. Work yet to be completed with details
- b. Reason for delay :

13. Probable date of completion of the project:

14. Amount of matching grant : Rs. 36,000/-

a) Name and address of the organization:

Saranathan College of Engineering, Venkateswara Nagar, Tiruchirappalli-620 012, Tamilnadu.

b) Date of receipt : 29-09-2016

c) Amount received : Rs. 36,000/-

d) Amount utilised till date : Rs. 37,102/-

15. Name of the organizations providing support to the project:

a. Name of the organization:

Saranathan College of Engineering, Venkateswara Nagar, Tiruchirappalli-620 012, Tamilnadu.

b. Nature of support e.g. financial, technical and infrastructural: Technical & Laboratory

c. Support yet to be received: Yes

16. Project Achievements in brief:

- Crucible furnace is fabricated.
- Aluminium silicon carbide composite material is casted.
- Temperature is measured tool and workpiece and also analyzed at different levels.
- Optimal machining parameters are identified for face milling operations.

17. Expected beneficiaries of the project: The optimal parameters are proposed to manufacturing industries.

18. Any other information to be furnished regarding progress of project:

- Best Project Award - 3rd IET Tamilnadu State Centre Student's & Technician's Convention and All India Seminar on "Innovation, Technology and Knowledge Economy", K.L.N. College of Engineering, Madurai on 17th March 2017.
- Third Prize - Paper Presentation in National Level Technical Symposium organized by Trichy Engineering College, Konaikul, Trichy on 20th March 2017.
- International Conference on Newer Engineering Concepts and Technology (iConnect2K17)
- To deliver guest lecture on "Optimization of Milling Parameters for Aluminium Silicon Carbide Composite" in IET - Tiruchirappalli local centre.


Project Guides

1. Dr. N. Baskar
2. Dr. M. Ganesh

Dr.N.BASKAR,M.E.,P.L.D.,
Supervisor Registration No.1.26047
Professor/Dept.Of Mechanical Engineering
Saranathan College of Engineering
Tiruchirappalli - 620 012


Head of the Department
(Dr. G. Jayaprakash)

Head of the Department
Mechanical Engineering
Saranathan College of Engineering
Tiruchirappalli - 620 012


Principal

PRINCIPAL
Saranathan College of Engineering
TRICHY - 12