



**Government College of Technology, Coimbatore-641013**

*(An Autonomous Institution affiliated to Anna University, Chennai)*

**SELF-STUDY REPORT**

**CRITERION 3**

**Research, Innovations and Extension**

**Key Indicator: 3.2 Resource Mobilization for Research**

**3.2.1 Total Grants research funding received by the institution and its faculties through Government and non-government sources such as industry, corporate houses, international bodies for research project, endowment research chairs during the last five years (INR in Lakhs)**

**DECLARATION**

This is to certify that the supporting documents uploaded in Institution website and the respective links are true to the best of my knowledge and belief. All the documents and links are verified and authenticated.

**HEAD OF THE INSTITUTION**

**(Seal and sign of Principal)**

**Principal**

**Government College of Technology  
Coimbatore -641 013.**



**Government College of Technology, Coimbatore-641013**  
(An Autonomous Institution affiliated to Anna University, Chennai)

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**Government College of Technology**  
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**HEAD OF THE INSTITUTION**

(Seal and sign of Principal)

**Principal**  
**Government College of Technology**  
**Coimbatore -641 013.**

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj,  
New Delhi-110070

RPS - Sanction Letter

File No. 8-70/FDC/RPS (POLICY-1) /2019-20

Date: 14 Aug 2020

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

Sub: Release of a sum of Rs.579412/- being the 1<sup>st</sup> installment of the total grant of Rs.588235/- for conduct of Project under Research Promotion Scheme (RPS) during the financial year 2020-21.

Sir,

With reference to the proposal submitted by the institute, this is to convey the sanction of the Council for payment of Rs.579412/- (Rupees Five Lakh Seventy Nine Thousand Four Hundred Twelve Only) as 1<sup>st</sup> installment out of a total approved grant-in-aid of Rs.588235/- for conduct of a Project under the Research Promotion Scheme (RPS), as per details given below:-

I.	Name and address of the Beneficiary : Institution (University / College / Institution)	: Registrar / Director / Principal, Government College of Technology, Coimbatore, Tamil Nadu-641013
II.	Principal Investigator's Name & Dept./Course	: Dr. Jeyanthi J (Biotechnology Engineering)
III.	Grant-in-aid Sanctioned	: Rs.588235 /- (Rs. 500000/- for non-recurring and Rs.88235 /- for recurring expenditure)
IV.	Amount to be Released during the year 2019-20 (as 1 <sup>st</sup> installment)	: Rs.579412 /- (Rs. 500000/- Full amount of non-recurring & Rs.79412/- 90 % of recurring sanctioned)
V.	Project Duration	: 3 Years
VI.	Title of the Project	: Design and Evaluation of Novel Transdermal Patches for the effective insulin delivery in Type 2 Diabetic patients.

I. Release of funds:

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of Government College of Technology, Coimbatore, Tamil Nadu-641013 through RTGS/PMFS.
2. The sanctioned grant-in-aid is debitable to the Major Head "601.12.a (RPS Plan)" Gen. and is valid for payment during the financial year 2020-21.
3. The sanction issues in exercise of the powers delegated to the Council. It is also certified that grant-in-aid is being released in conformity with the rules and principles of the Scheme.
4. The 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.

II. Maintenance of account by the Institute/PI:

1. Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
2. The grant is intended to cover items of expenditure/equipment approved by AICTE.
3. Acknowledgement of receipt of grant and letter of acceptance of terms and conditions is to be submitted to AICTE within 15 days from the receipt of the grant to the following address:

Director (Faculty Development Cell), AICTE, Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

Contd...2/-

4. The accounts of the grantee will be opened for test check by the Council or Comptroller & Auditor General of India or by any officer designated by them.
5. The Principal and PI of the Institute are requested to verify the correctness of the undermentioned bank account/RTGS/PFMS details submitted by them alongwith the Proposal, in which the grant is being released. In case of any omission, the same should be reported to AICTE immediately along with refund of entire grant:-

Institute Pan No.	Bank Name	Bank Branch	Bank Branch Add.	Account Holder Name	Account Type	Account Number	IFSC Code
AAALG68 30C	State Bank of India	G.C.T.	Thadagam Road, Colmatore- 641013	Government College of Technology	Current Account	36257056806	SBIN0010432

6. The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE/Government of India from time to time. Grantee Institution must follow GFR guidelines in procuring the sanctioned items and maintain an audited record of assets acquired wholly or substantially out of the grant-in-aid and a register for assets shall be maintained by the Institute in the prescribed form i.e. GFR-19.
7. Interest accrued on the sanctioned grant-in-aid will be reported and refunded to AICTE and not adjusted against the subsequent installment.

### III. General Instructions:

1. It should be ensured that no RPS project in favour of the same P.I. has been sanctioned during the last 03 years before utilizing this amount and the matter be brought to the notice of this Council immediately in case a faculty is sanctioned multiple RPS Projects.
2. The duration of Project is 03 years and the date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Registrar/Director/Principal shall intimate about the receipt of the grant to AICTE. Any Expenditure, incurred prior to issuance of this Sanction Order, would not be allowed to be adjusted in the grant and if the University/Institution do not take-up the project work within 6 months of the receipt of the grant, approval shall *ipso facto* lapse and the Institute has to necessarily refund the entire grant to AICTE along with interest within a month. In case the grant is not refunded within said duration 18% interest will be levied on it. The grant has to be refunded to AICTE, through RTGS as per details given below:

Account Number	55113199952
Name of the Account Holder	Member Secretary, AICTE, New Delhi
Bank Name	State Bank of India
Branch Name	Shashtri Bhawan, New Delhi
IFSC Code	SBIN0050203

3. The Institute may constitute a Project Monitoring Committee (PMC). The composition of the PMC shall be as under:
- Principal/Director of the Institution (Chairperson)
  - Two HODs from Institute (Members)
  - In case of private institute one subject expert from government institute, not below the rank of Associate Professor (Member)
  - Coordinator of the project (Member Secretary)
4. The grant shall be utilized strictly for the purpose as specified in the sanction letter. Re-appropriation of funds from one Head to another is strictly not permitted viz. Recurring and non-recurring Heads. Further, the equipment(s)/item(s) purchased should be as per the specifications and individual item-wise costs sanctioned by AICTE, and not taking the total grant sanctioned as one entity. Item-wise purchase cost shall be matched with the sanctioned cost, and the cost of item purchased below the sanction cost shall be restricted as actual cost. If the item purchase cost is higher than its sanctioned cost, the cost shall be restricted to the sanctioned cost and the additional amount shall be met by the Institute from its own resources.
5. Similarly, the recurring grant shall be used for the items sanctioned by the AICTE. No money be used for going abroad to attend Conference / seminars. However, for presenting a Paper in a Seminar / Conference within the country, the travel expenses may be met from the recurring grant.

:: 3 ::

6. No request for additional grant over and above the sanctioned grant shall be considered by the AICTE. The additional amount, if any, expended beyond the sanctioned grant shall be met by the Institute from its own resources.
7. The institute/University shall not charge any overheads on this Project and will provide all the administrative support and timely release of grant to PI for completion of the Project.
8. The grantee shall utilize grants only on approved items as per list of equipment attached. However, if the grantee wishes to recast the Project, approval of Council must be obtained for the revised item of expenditure and they will maintain proper accounts of the expenditure as per the norms/procedures of AICTE/Government of India. The revised proposal should be within the total grant sanctioned and duly supported with reasons and recommendations of the Project Monitoring Committee (PMC).
9. The assets acquired wholly or substantially out of All India Council for Technical Education's grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given without proper sanction of the All India Council for Technical Education.
10. Each project sanctioned by AICTE is assigned a specific Reference Number, which is given on pre-page. All correspondence address to AICTE regarding the project must quote this number alongwith year of sanction of the project, otherwise correspondence may not be entertained.
11. The grantee shall follow the terms and conditions of Research Promotion Scheme (RPS) as laid down by the Council from time to time.

#### IV. Submission of documents by the institute/PI to AICTE:

- A. Documents to be submitted within one month of completion of each financial year:
  - i. Annual Progress Report, indicating therein the number of patents, publications or any other achievement.
  - ii. Utilization Certificate, Audited Utilization Certificate, Receipt & Payments, Statement of Expenditure.
  - iii. Audited record of assets acquired wholly or substantially out of the grant-in-aid and a register for assets in the prescribed form i.e. GFR-19.
  - iv. Separate Bills/vouchers related to Non-recurring and recurring expenditures duly signed & stamped by the PI & Head of the institution.
  - v. Stock entry register duly verified by the Store-in-charge and PI & counter signed by Head of institution.
- B. Documents to be submitted within two month of completion of the Project:
  - i. The consolidated Utilization Certificate (UC) and Receipt & Payment Account for the Project duration, duly audited.
  - ii. Consolidated audited statement of expenditure, to the effect that the grant has been utilized for the purpose for which it has been sanctioned. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council.
  - iii. Project Completion Report duly signed & stamped by the PI & Head of the institution and Project Evaluation Committee (PEC) Members.
  - iv. Principal Investigator/institute to submit the Feed Back Form in AICTE format.
  - v. The prescribed formats for submission of necessary mandatory documents and Terms & Conditions may please be downloaded from [www.aicte-india.org/schemes/research-innovations-development-schemes](http://www.aicte-india.org/schemes/research-innovations-development-schemes).

**Note: Any deviation from the above said time schedule will cause serious action against the institute.**

## Approved list of items under Non-recurring grant:

S. No.	Approved Item (As per proposal)	No. of Units	Amount recommended
A.	Non-recurring		
i)	Transdermal Patch Maker	1	Rs.500000/-
B.	Recurring (i.e. 90% of total approved recurring grant) for Contingencies & Consumables only		Rs.79412/-
	Grand Total (A)+(B)		Rs.579412/-

1. Registrar/Director/Principal,  
Government College of Technology,  
Coimbatore, Tamil Nadu-641013

2. Name of Principal Investigator,  
Dr. Jeyanthi J,  
Government College of Technology,  
Coimbatore, Tamil Nadu-641013

3. Office of Director General of Audit  
General Revenues, AGCR Building  
I.P. Estate, New Delhi-110002.

4. Guard File

(Col. B. Venkat)  
Director (FDC)

2019/08/20



**OFFICE OF THE GOVERNMENT COLLEGE OF TECHNOLOGY,  
COIMBATORE**

**PRESENT: Dr.P.THAMARAI, Ph.D., PRINCIPAL.**

PROCEEDINGS NO: 916/TEQIP- III/R & D - CIVIL/ 2020 Dt: .03.2020

**Sub:** Technical Education, Government College of Technology, Coimbatore – 13 Payment towards R & D Project work done by PG student under the guidance of Dr.S. Chithra, Asst Professor / CE – Financial Sanction– Accorded - reg.

**Ref:** 1. Letter from Selvi. M. Muhsina Parveen (1871108) Dated : 10.02.2020  
2. Minutes of 33<sup>rd</sup> BoG Meeting dated: 20.09.2019

\*\*\*\*\*

As per reference cited above, Sanction is hereby accorded for a sum of **Rs. 10,979/- (Rupees Ten Thousand Nine Hundred and Seventy Nine only)** being the payment made towards R & D Project Work in the title “Study on Concrete-Steel Interaction in Reinforced concrete elements, when exposed to marine environment” by the following PG Student under the guidance of Dr.S. Chithra, Asst Professor / Civil Engg.

Sl. No	Student Name	Department & Year	Amount in Rs.
1	M. Muhsina Parveen (1871108)	M.E. Structural Engineering (II year)	10,979

**(Rupees Ten Thousand Nine Hundred and Seventy Nine only)**

The expenditure is debitable to the following Head of Account.

2203-00- Technical Education 112 Engineering / Technical colleges and Institute Schemes in the TWELFTH FIVE YEAR PLAN – VI Schemes shared between State and Centre UA Technical Education Quality Improvement Programme Phase III.

**Sub Head “Research & Development CoE-ES”.**

*P. Thamarai*  
PRINCIPAL 9/3/2020

*24*  
09/3/2020 *9/3/2020*

**OFFICE OF THE GOVERNMENT COLLEGE OF TECHNOLOGY,  
COIMBATORE**

**PRESENT: Dr.P.THAMARAI, Ph.D., PRINCIPAL.**

PROCEEDINGS NO: 917/TEQIP- III/R & D - CIVIL/ 2020 Dt: .03.2020

**Sub:** Technical Education, Government College of Technology, Coimbatore – 13 Payment towards R & D Project work done by PG student under the guidance of Dr.J. Jeyanthi, Professor / Civil Engg. – Financial Sanction–Accorded - reg.

**Ref:** 1. Letter from A. Herbert Shyji(1871204) Dated : 03.02.2020  
2. Minutes of 33<sup>rd</sup> BoG Meeting dated: 20.09.2019

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As per reference cited above, Sanction is hereby accorded for a sum of **Rs. 15,129/- (Rupees Fifteen Thousand One Hundred and Twenty Nine only)** being the payment made towards R & D Project Work in the title “Textile dye removal using photocatalytic cascade disk reactor coated by cerium oxide nanoparticles” by the following PG Student under the guidance of Dr.J. Jeyanthi, Professor / Civil Engg..

Sl. No	Student Name	Department & Year	Amount in Rs.	Particulars
1	A. Herbert Shyji(1871204)	M.E. <sup>Environmental</sup> Structural Engineering (II year)	15,129	Payment made towards the R & D Project Expenses to HoD Department of Biotechnology

**(Rupees Fifteen Thousand One Hundred and Twenty Nine only)**

The expenditure is debitible to the following Head of Account.

2203-00- Technical Education 112 Engineering / Technical colleges and Institute Schemes in the TWELFTH FIVE YEAR PLAN – VI Schemes shared between State and Centre UA Technical Education Quality Improvement Programme Phase III.

**Sub Head “Research & Development CoE-ES”.**

*P. Thamarai*  
9/3/2020  
PRINCIPAL

*24*  
09/3/2020 *24*  
9/3/2020

**OFFICE OF THE GOVERNMENT COLLEGE OF TECHNOLOGY,  
COIMBATORE**

**PRESENT: Dr.P.THAMARAI, Ph.D., PRINCIPAL.**

**PROCEEDINGS NO: 1090/TEQIP- III/R & D/2020**

**Dt: 11.09.2020**

**Sub:** Technical Education, Government College of Technology, Coimbatore – 13 Payment towards R & D Project work done by A. Abinayaa, Ph.D. student under the guidance of Dr.S.Chithra, Assistant Professor / CE – Financial Sanction–Accorded - reg.

**Ref:** 1. Letter from A. Abinayaa(Reg. No.19241691144) Dated : 29.06.2020  
2. Minutes of 33<sup>rd</sup> BoG Meeting dated: 24.09.2019

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As per reference cited above, Sanction is hereby accorded for a sum of **Rs.1,44,480/- (Rupees One Lakh Forty Four Thousand Four Hundred and Eighty Only)** being the payment to the guide Dr.S.Chithra, Assistant Professor / Civil Engg for the R & D Project Work done by the following Ph.D Scholar in the title “Investigation of Chloride Induced Corrosion in Reinforced Concrete Elements Admixed with Inhibitor”. The details of the Ph.D Scholar are as follows:

Sl. No	Student Name	Department	Amount in Rs.
1	A. Abinayaa (Reg. No.19241691144)	Full Time Ph.D. Scholar, Department of Civil Engineering	1,44,480

**(Rupees One Lakh Forty Four Thousand Four Hundred and Eighty only)**

The expenditure is debitable to the following Head of Account.

2203-00- Technical Education 112 Engineering / Technical colleges and Institute Schemes in the TWELFTH FIVE YEAR PLAN – VI Schemes shared between State and Centre UA Technical Education Quality Improvement Programme Phase III.

**Sub Head “Research & Development CoE ES”.**

  
11/09/2020  
**PRINCIPAL**

**OFFICE OF THE GOVERNMENT COLLEGE OF TECHNOLOGY,  
COIMBATORE**

**PRESENT: Dr.P.THAMARAI, Ph.D., PRINCIPAL.**

PROCEEDINGS NO: 801/TEQIP- III/WORKSHOP/ 2020 Dt: .01.2020

**Sub:** Technical Education, Government College of Technology, Coimbatore – 13 Payment towards R & D Project work done by PG students under the guidance of Dr.D. Padmini, Associate Professor / CE – Financial Sanction–Accorded - reg.

**Ref:** 1. Letter from Selvan. M. Arunkumar (1871101) Dated : 25.11.2019  
2. Minutes of 33<sup>rd</sup> BoG Meeting dated: 24.09.2019

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As per reference cited above, Sanction is hereby accorded for a sum of **Rs. 8,955/- (Rupees Eight Thousand Nine Hundred and Fifty Five only)** being the payment made towards R & D Project Work in the title “Experimental Investigations on the effective utilization of granite powder in self compacting concrete” by the following PG Student under the guidance of Dr.D. Padmini, Associate Professor / Civil Engg.

Sl. No	Student Name	Department & Year	Amount in Rs.
1	M. Arunkumar (1871101)	M.E. Structural Engineering (II year)	8,955

**(Rupees Eight Thousand Nine Hundred and Fifty Five only)**

The expenditure is debitable to the following Head of Account.

2203-00- Technical Education 112 Engineering / Technical colleges and Institute Schemes in the TWELFTH FIVE YEAR PLAN – VI Schemes shared between State and Centre UA Technical Education Quality Improvement Programme Phase III.

**Sub Head “Research & Development”.**

*P. Thamarai*  
27/01/2020  
PRINCIPAL

*24*  
27/1/2020      *25*  
24/1/2020

**OFFICE OF THE GOVERNMENT COLLEGE OF TECHNOLOGY,  
COIMBATORE**

**PRESENT: Dr.P.THAMARAI, Ph.D., PRINCIPAL.**

**PROCEEDINGS NO: 1096/TEQIP- III/R & D/2020**

**Dt: 18.09.2020**

**Sub:** Technical Education, Government College of Technology, Coimbatore – 13 Payment towards R & D Project work done by Mr. M. Vijay, Full time Research Scholar under the guidance of Dr.T.Sekar, Associate Professor / Mechanical Engineering – Financial Sanction–Accorded - reg.

**Ref:** 1. Letter from M. Vijay(Reg. No.17122991339) Dated : 17.09.2019  
2. Minutes of 33<sup>rd</sup> BoG Meeting dated: 24.09.2019

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As per reference cited above, Sanction is hereby accorded for a sum of **Rs.1,90,941/- (Rupees One Lakh Ninety Thousand Nine Hundred and Forty One Only)** being the payment to the guide Dr.T.Sekar, Associate Professor / Mechanical Engineering for the R & D Project Work done by the following Ph.D Scholar in the title “Experimental Investigations on Electrochemical Discharge Machining of Bio-ceramics”. The details of the Ph.D. Scholar are as follows:

Sl. No	Student Name	Department	Amount in Rs.
1	M. Vijay (Reg. No.17122991339)	Full Time Ph.D. Scholar, Department of Mechanical Engineering	1,90,941

**(Rupees One Lakh Ninety Thousand Nine Hundred and Forty One only)**

The expenditure is debitible to the following Head of Account.

2203-00- Technical Education 112 Engineering / Technical colleges and Institute Schemes in the TWELFTH FIVE YEAR PLAN – VI Schemes shared between State and Centre UA Technical Education Quality Improvement Programme Phase III.

**Sub Head “Research & Development”.**

*P. Thamarai*  
18/09/2020  
**PRINCIPAL**

*13/9/20*  
*18/9/20*

OFFICE OF THE GOVERNMENT COLLEGE OF TECHNOLOGY,  
COIMBATORE

PRESENT: Dr.P.THAMARAI, Ph.D., PRINCIPAL.

PROCEEDINGS NO: 1098/TEQIP- III/R & D/2020

Dt: 29.09.2020

**Sub:** Technical Education, Government College of Technology, Coimbatore – 13 Payment towards R & D Project work done by Karthick K V, ME 2<sup>nd</sup> year Applied Electronics, ECE under the guidance of Mr. S. Mathivanan, Assistant Professor / ECE – Financial Sanction–Accorded - reg.

**Ref:** 1. Letter from Karthick K V (Reg. No.1874109) Dated : 17.03.2020  
2. Minutes of 33<sup>rd</sup> BoG Meeting dated: 24.09.2019

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As per reference cited above, Sanction is hereby accorded for a sum of **Rs.50,710/- (Rupees Fifty Thousand Seven Hundred and Ten Only)** being the payment to the ECE Association account (Treasurer ECE ASSN) for the R & D Project Work done by the following student in the title “BCE Beacon following Smart Rover” under the guidance of Mr. S. Mathivanan, Assistant Professor / ECE . The details of the student are as follows:

Sl. No	Student Name	Department	Invoice No / dated	Amount in Rs.
1	Karthick K V (Reg. No. 1874109)	ME 2 <sup>nd</sup> year Applied Electronics, Department of ECE	Invoice No. 109 Dt:09.01.2020 Invoice No.115 Dt: 11.01.2020	50,710

**(Rupees Fifty Thousand Seven Hundred and Ten only)**

The expenditure is debitable to the following Head of Account.

2203-00- Technical Education 112 Engineering / Technical colleges and Institute Schemes in the TWELFTH FIVE YEAR PLAN – VI Schemes shared between State and Centre UA Technical Education Quality Improvement Programme Phase III.

Sub Head “Research & Development”.

*P. Thamarai*  
29/9/2020  
PRINCIPAL

*S. Mathivanan*  
29/9/2020