



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapualasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 3.1.1. Grants received from Government and Non Government Agencies for Research projects/ endowments in the institution during the AY 2021-2022

### INDEX

S. No.	Name of the Principal Investigator/ co-investigator	Name of the Funding Agency	Department of the Principal Investigator/ co-investigator	Year of Award	Fund Provided (INR in Lakhs)	Duration of the project	Page No.
1	Dr. B. Avinash Ben Mr. Suresh Panda Mrs. K. K. R. Parimala	R Radiant Engineering Services	Mech	2021-22	4.32	12 Months	3
2	Dr. S.N. V. Ganesh Mr. A. Arjun Rao Mr. G. Prasanth	R Radiant Engineering Services	EEE	2021-22	2.40	12 Months	8
3	Dr. A. Chandra Sekhar Mr. A. Vasudeva Rao Mrs. N. Harini	iFLY Academy	CSE	2021-22	1.52	12 Months	13
4	Mrs. K. Syamala Ms. B. Pravallika	Teck Team Solutions	ECE	2021-22	1.30	15 Months	22
5	Dr. G. Satyanarayana Mr. S. Kesava Rao Mrs. A. Swathi	GrafX IT Solutions Pvt. Ltd.	CSE	2021-22	0.48	12 Months	30
6	Dr. Avinash Ben	AIET	Mech	2021-22	0.10	6 Months	45
7	Dr. A. M.V. Praveen	AIET	Mech	2021-22	0.10	7 Months	48
8	Dr. A. Chandra Sekhar	AIET	CSE	2021-22	0.11	8 Months	51
9	Dr. R. Swapna	AIET	BS&H	2021-22	0.10	9 Months	54
10	Mr. P. Anil Kumar	AIET	Mech	2021-22	0.12	10 Months	57





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11	Mr. G. Ramu	AIET	Mech	2021-22	0.12	11 Months	60
12	Mr. Sk. H Shariff	AIET	Mech	2021-22	0.12	12 Months	63
13	Mr. L. Bhavani Shankar	AIET	Mech	2021-22	0.10	13 Months	66
14	Mr. S. Suman Dutta	AIET	MBA	2021-22	0.12	14 Months	69
15	Mr. B. Anand Swaroop	AIET	EEE	2021-22	0.12	15 Months	72
16	Mrs. S. Santhoshi Bhavani	AIET	ECE	2021-22	0.11	16 Months	75
17	Mr. K. Avinash Kumar	AIET	ECE	2021-22	0.14	17 Months	78
18	Mr. K. Syamala	AIET	ECE	2021-22	0.11	18 Months	81
19	Mr. S. Kesava Rao	AIET	CSE	2021-22	0.10	19 Months	84
20	Mr. K. Mehar Prasad	AIET	CSE	2021-22	0.10	20 Months	87
21	Mrs. Sangita Mishra	AIET	CSE	2021-22	0.10	21 Months	90
22	Mr. P. Satyanarayana	AIET	CSE	2021-22	0.12	22 Months	93



Principal

PRINCIPAL  
AVANTHI INSTITUTE OF ENGG & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162





## INDUSTRIAL CONSULTANCY PROPOSAL

Date: 18.02.2021

To

Avanathi Institute of Engineering and Technology,  
Cherukupally,  
Vizianagaram.

Dear Sir,

**Sub:** Looking for qualified team who can work for our organization's project.

I'm Mr. B. Santhosh the Purchase Manager at R Radiant Engineering Services which is located at Visakhapatnam in Andhra Pradesh, India

We are delighted to offer ourselves as a Consulting Engineer Services and workforce Recruitment/supply Certified Company and a rapidly expanding Engineering Consultancy. We are among the top Design & Detailing Engineering Service Providers in Visakhapatnam. Our strength is in understanding global client needs and providing single source multi-discipline services of actual value to our customers.

We have a team of professionals with global experience in the Oil & Gas, Refineries, Petrochemical, Power, Pipelines, Chemical, Fertilizer industries, Product Development, Computer Aided Engineering, Consultancy, Recruiting & Staffing industries, offering cost effective services with world-class quality in Engineering, Procurement Assistance, Training, and Support services to clients.

We are looking for a team of qualified faculty members at your college in Mechanical Engineering who can work on Modeling, Simulation, Drafting of mechanical drawings in CAE, CAD-CAM platforms. If your college is interested to work in collaboration, we forward further documentation & I sincerely hope that we can keep the information confidential.

Looking forward & thank you.

  
Mr. B. Santhosh



Purchase Manager, R RADIANT ENGINEERING SERVICES



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 23.02.2021.

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally (Village).

To  
Purchase Manager,  
R Radiant Engineering Services,  
#48-14-109, 2<sup>nd</sup> Floor, beside the reliance jewelry,  
Near Rama talkies road,  
Visakhapatnam – 530013.

Respected sir,

**Sub:** Project Development- Acceptance reg.

It gives us great pleasure to let you know that the project proposal (PO NO. PO/21-22/RRES001) has been confirmed. We appreciate you giving us the opportunity to work on your current project, which has to do with the most recent developments in the design sector. Please be assured that we will make every effort to complete the project as quickly as we can.

Thanking You,

  
Principal

**PRINCIPAL**  
**AVANTHI INSTITUTE OF ENGG. & TECH**  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162



Copy to:

HOD of Mech





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

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Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 23.02.2021.

From

The Principal,  
Avanathi Institute of Engineering and Technology,  
Cherukupally.

To

Purchase Manager,  
R Radiant Engineering Services,  
#48-14-109, 2<sup>nd</sup> Floor, beside the reliance jewelry,  
Near Rama talkies road,  
Visakhapatnam – 530013.

Respected sir,

**Sub:** Project Development Team. I'm pleased to depute.

1. Dr. B. Avinash Ben
2. Mr. P. Suresh Kumar
3. Mrs. K. K. R. Parimala

For the necessary work.

Thanking You,

Principal

AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

Copy to:

HOD of Mech



**PURCHASE ORDER**

PO No.PO/21-22/RRES/001

Date:1<sup>ST</sup>-APR-2021

TO,

**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Cherukupally, Bhogapuram Mandal, Vizianagaram

Purchase/buyer-R RADIANT ENGINEERING SERVICES

Invoicing Address- #48-14-109, 2nd floor, Beside The Reliance Jewellery,  
Near Rama Talkies Junction, Visakhapatnam,  
Andhra Pradesh 530016

GSTIN -37AKNPR0140B1ZG

Designer/ 3DModelling/Analysis -AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY-Mech Dept.,

S No.	Description	RATE (Rs)	AMOUNT (Rs)
1	Modeling, Simulation and Drafting	36,000Rs/Per Month	36,000x12= 4,32,000Rs
	<b>Total for</b>		<b>4,32,000</b>

**Word Oder Valid: One Year (1 Apr 2021 to 31 Mar 2022) is Rs. Four lakhs Thirty Two thousand only.**

Terms & Conditions:

1. GST: 18% Extra Applicable.
2. Base modeling of 3D template model, changes as per design requirement.
3. Simulation Mechanism How it works, Validation of Model, Animation to be provided.

**FOR R RADIANT ENGINEERING SERVICES**

  
PURCHASE MANAGER







# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 31.03.2022.

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

To  
Purchase Manager,  
R Radiant Engineering Services,  
#48-14-109, 2<sup>nd</sup> Floor, beside the reliance jewelry,  
Near Rama talkies road,  
Visakhapatnam – 530013.

Respected Sir,

Sub: Project Completion---reg.

The project has been completed on 31.03.2022. It has been a great achievement by us to complete the prestigious project on time. It has been a great privilege, working in association with you and looking forward to working with you in future projects. We request you to please come along with your team for collecting, retrieving of important and confidential data.

Looking forward to a quick response from your side.

Thanking you,

Principal

**PRINCIPAL**  
**AVANTHI INSTITUTE OF ENGG. & TECH**  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162



## INDUSTRIAL CONSULTANCY PROPOSAL

Date: 23.02.2021.

To

Avanthi Institute of Engineering and Technology,  
Cherukupally,  
Vizianagaram.

Dear Sir,

Sub: Looking for qualified team who can work for our organization's project.

I'm Mr. B. Santhosh the Purchase Manager at R Radiant Engineering Services which is located at Visakhapatnam in Andhra Pradesh, India

We are delighted to offer ourselves as a Consulting Engineer Services and workforce Recruitment/supply Certified Company and a rapidly expanding Engineering Consultancy. We are among the top Design & Detailing Engineering Service Providers in Visakhapatnam. Our strength is in understanding global client needs and providing single source multi-discipline services of actual value to our customers.

We have a team of professionals with global experience in the Oil & Gas, Refineries, Petrochemical, Power, Pipelines, Chemical, Fertilizer industries, Product Development, Computer Aided Engineering, Consultancy, Recruiting & Staffing industries, offering cost effective services with world-class quality in Engineering, Procurement Assistance, Training, and Support services to clients.

We are looking for a team of qualified faculty members at your college in Electrical and Electronics Engineering who can work on Modeling, Simulation, Drafting of Equipment and Cable Design in CAE, CAD-CAM platforms. If your college is interested to work in collaboration, we forward further documentation & I sincerely hope that we can keep the information confidential.

Looking forward & thank you,

  
Mr. B. Santhosh



Purchase Manager, R RADIANT ENGINEERING SERVICES





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 02.03.2021.

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally (Village).

To  
Purchase Manager,  
R Radiant Engineering Service,  
#48-14-109, 2<sup>nd</sup> Floor, beside the reliance jewelry,  
Near Rama talkies road,  
Visakhapatnam – 530013.

Respected sir,

**Sub:** Project Development- Acceptance reg.

It gives us great pleasure to let you know that the project proposal (PO NO. PO/21-22/RRES001) has been confirmed. We appreciate you giving us the opportunity to work on your current project, which has to do with the most recent developments in the design sector. Please be assured that we will make every effort to complete the project as quickly as we can.

Thanking You,

Principal



**PRINCIPAL**  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

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HOD of EEE



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Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 02.03.2021.

From

The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

To

Purchase Manager,  
R Radiant Engineering Service,  
#48-14-109, 2<sup>nd</sup> Floor, beside the reliance jewelry,  
Near Rama talkies road,  
Visakhapatnam – 530013.

Respected sir,

**Sub:** Project Development Team. I'm pleased to depute.

1. Dr. S. N. V. Ganesh
2. Mr. A. Arjun Rao
3. Mr. G. Prasanth

For the necessary work.

Thanking You,

Copy to:

HOD of EEE



Principal  
PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Chittivalasa (SAO),  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162



**PURCHASE ORDER**

PO No. PO/21-22/RRES/001

Date: 1<sup>ST</sup>-APR-2021

TO,  
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
Cherukupally, Bhogapuram Mandal, Vizianagaram

Purchase/buyer- R RADIANT ENGINEERING SERVICES

Invoicing Address- #48-14-109, 2nd floor, Beside The Reliance Jewelry,  
Near Rama Talkies Junction, Visakhapatnam,  
Andhra Pradesh 530016

GSTIN -37AKNPR0140B1ZG

Designer/ 3DModelling/Analysis -AVANTHI INSTITUTE OF ENGINEERING AND  
TECHNOLOGY-EEE Dept.,

S No.	Description	RATE (Rs)	AMOUNT (Rs)
1	Equipment and Cable design- Modeling, Simulation and Drafting	20,000Rs/Per Month	20,000x12= 2,40,000Rs
	<b>Total</b>		<b>2,40,000</b>

**Word Oder Valid: One Year (1 Apr 2021 to 31 Mar 2022) is Rs. Two lakhs Forty Thousand only.**

Terms & Conditions:

1. GST: 18% Extra Applicable.
2. Base modeling of 3D template model, changes as per design requirement.
3. Simulation Mechanism How it works, Validation of Model, Animation to be provided.

**FOR R RADIANT ENGINEERING SERVICES**

  
PURCHASE MANAGER





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[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

Cherukupally,

Date: 31.03.2022.

From  
The Principal,  
Avanathi Institute of Engineering and Technology,  
Cherukupally.

To  
Purchase Manager,  
R Radiant Engineering Service,  
#48-14-109, 2<sup>nd</sup> Floor, beside the reliance jewelry,  
Near Rama talkies road,  
Visakhapatnam – 530013.

Respected Sir,

Sub: Project Completion---reg.

The project has been completed on 31.03.2022. It has been a great achievement by us to complete the prestigious project on time. It has been a great privilege, working in association with you and looking forward to working with you in future projects. We request you to please come along with your team for collecting, retrieving of important and confidential data.

Looking forward to a quick response from your side.

Thanking you,

Principal

**PRINCIPAL**  
**AVANTHI INSTITUTE OF ENGG. & TECH.**  
**Cherukupally (V), Chittivalasa (SAC),**  
**Bhogapuram (M),**  
**Vizianagaram (Dist.)-531162**





47-3-29/2, Tilak Lane, Near Fitzee  
Behind Gayatri Inter College  
1st Floor, Dwarakanagar, 5th Lane  
Visakhapatnam - 16  
Ph: 0891 - 2575103, 82470 98849

### INDUSTRIAL CONSULTANCY PROPOSAL

To

The Principal  
Avanthi Institute of Engineering and Technology  
Vizianagaram

5th, April, 2021

Dear Sir,

Sub: Looking for qualified team who can work for our organization's project.

I'm Mr.G.Rambabu, one of the Directors at IFLY Academy which is located at Visakhapatnam in Andhra Pradesh, India

We design products to enable digital transformation efficiently. Our products such as HCM provide visualization of various business processes in your organization and help to discover hidden problems.

It starts as a new age hire to retire platform built with a goal of creating an application with enterprise grade architecture and functionality coupled with a digital native focused user experience. All the modules have been built keeping in mind the future workforce and creating a positive experience throughout the life cycle of the employee in an organization.

We are looking for team of qualified faculty members at your college in Computer Science Engineering who can work for migration of HCM project to AWS cloud platform. If your college is interested to 'work in collaboration, we forward further documentation & Non Disclosure Agreement.

Looking forward & thank you,

Signature and Stamping



AVIATION & HOSPITALITY

Director





47-3-29/2, Tilak Lane, Near Fitzee  
 Behind Gayatri Inter College  
 1st Floor, Dwarakanagar, 5th Lane  
 Visakhapatnam - 16  
 Ph: 0891 - 2575103, 82470 98849

IFLY Academy established in 2015, is a software product company with development center in Visakhapatnam, with operations in India. We help enterprises worldwide digitally transform their companies with enterprise SaaS product.

**Our SaaS product:**

HCM: An end to end Hire to retire Human Capital Management Suite built for enterprises with a fundamental focus on Employee experience and engagement.

**Part A**

**(General Information about the project)**

HCM SaaS is the ability to significantly increase the productivity of human resources staff, since many functions that would normally require input from human resources personnel can be automated or fulfilled through self service web interfaces. Tasks previously handled by human resources staff, including employee verifications, employment application processing and employee benefits administration can be effectively delivered in a self service format when HCM software is provided as a service, in a cloud computing environment. Until a few years ago, saving money on IT labor and infrastructure was the main reason to move human capital management to the cloud.

More recently, the motivation was to gain any edge possible in the fight to attract, develop and retain top-performing employees. Niche applications for recruitment, training and performance management, and full-fledged talent management tools -- nearly all of them delivered via SaaS. A cloud-based HR solution to control and evaluate data in organizations of all sizes. This solution offers services for payroll, performance, time and attendance, and workforce analytics.

AVIATION & HOSPITALITY







47-3-29/2, Tilak Lane, Near Fitzee  
Behind Gayatri Inter College  
1st Floor, Dwarakanagar, 5th Lane  
Visakhapatnam - 16  
Ph: 0891 - 2575103, 82470 98849

HR analytics and its more advanced forms that exploit artificial intelligence, as well as machine-learning bots, that require the processing power and data storage of the cloud. The benefits of HCM SaaS include easy accessibility, low cost, and no hardware requirement when installing HCM is a new age hire to retire platform built with a goal of creating an application with enterprise grade architecture and functionality coupled with a digital native focused user experience. All the modules have been built keeping in mind the future

workforce and creating a positive experience throughout the life cycle of the employee in an organization. Using HCM organizations will be able "Attract, Hire, Develop and Retain" the best talent using a single unified platform.

#### Features of HCM:

- Employee Management
- On boarding
- Leave Management
- Time & Attendance
- Off boarding
- Payroll Management
- Recruitment Management
- Performance Management
- Learning & Development
- Employee Engagement
- Expenses Management
- HR Helpdesk

AVIATION & HOSPITALITY







47-3-29/2, Tilak Lane, Near Fitzee  
Behind Gayatri Inter College  
1st Floor, Dwarakanagar, 5th Lane  
Visakhapatnam - 16  
Ph: 0891 - 2575103, 82470 98849

### Support Terms:

1. The project has to be completed within 8 months with extension of 4 months.
2. The idea of this proposal and data should not share with anyone which is relevant to this company
3. The Grantee will receive a financial aid of amount Rs 1,52,000
4. The Grantee will receive payments in different stages of the work
5. The project completion report has to be submitted with in the 3 months of completion of actual work approved as per letter of sanction
6. IFLY Academy will enhance support to the team in all aspects related to the project
7. IFLY Academy reserves the right to terminate this project at any stage

### Enclosures

Please submit the copies of following documents with requisite certificates

1. College registration certificates
2. Memorandum of association with college
3. Bio-data of the members of the Executive body of the society
4. Rules and regulation





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Accredited by NAAC)

Approved by AICTE, Recognized by the Govt. of A.P. & Permanantly Affiliated to J N T U, Kakinada)

Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08922-279884  
7997903696

Cherukupally,

Date: 28.05.2021

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally (Village)

To  
Managing Director  
IFLY Academy  
47-3-29/2 , Tilak road  
Visakhapatnam-530016

Dear Sir,

Sub.: Request to provide us with consultancy work-Reg.

We, Avanthi Institute of Engineering and Technology, are pleased to introduce ourselves as an emerging concern in the field of engineering education and software services. Avanthi Institute of Engineering and Technology is a professionally managed by a team of enthusiastic and qualified development team.

We humbly request you for an opportunity to prove ourselves by providing us project consultancy work.

Looking forward for your positive response.

Thank you

Principal

Copy to CSE HOD

PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162



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Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08922-279884  
7997903696

Cherukupally,

Date: 8.06.2021

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally (Village)

To  
Managing Director  
IFLY Academy  
47-3-29/2 , Tilak road  
Visakhapatnam-530016

Dear Sir

Sub. : Undertaking Project Assistance

Ref.: Your letter dated...

At the outset, I would like to thank you for your offer. As you are aware that, Avanthi Institute of Engineering and Technology is a growing organization and has been thinking of having tie-ups with industry for our various branches of Engineering and Technology. In fact Institution-Industry interaction and co-operation is the most talked about subject in seminars and workshops.

After assessing our strengths, I have earmarked the Computer Science & Engineering Department of this Institute to be your outsourcing partner. The department is adequately staffed and necessary infrastructure.

Thank you

Copy to CSE HOD

  
Principal  
PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TEC  
Cherukupally (V), Chittivalasa (SAI)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162





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Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08922-279884  
7997903696

Cherukupally,

Date: 24.06.2021

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally (Village)

To  
Managing Director  
IFLY Academy  
47-3-29/2 , Tilak road  
Visakhapatnam-530016

Respected sir,

**Sub:** Software Development Team. I'm pleased to depute.

1. Dr. Akula Chandra Sekhar
2. A. Vasudeva Rao
3. N. Harini

For the necessary work.

Thanking You,

Copy to HOD CSE

  
Principal  
PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TEC  
Cherukupally (V), Chittivalasa (SAC)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162



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Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08922-279884  
7997903696

Cherukupally,

Date: 4.07.2021

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally (Village)

To  
Managing Director  
IFLY Academy  
47-3-29/2 , Tilak road  
Visakhapatnam-530016

Dear Sir

Sub.: Project Assistance— estimation reg.

The project team has concluded that the time frame required for completing the project will be as under.

Estimation cost for the project will be 375 hrs.

1. Development Team.  $375 \times 405 = \text{Rs. } 1,52,000/-$

The total estimate as cost of the project will be Rs. 1,52,000/- (One Lakh Fifty Two Thousand rupees only)

Thank you

Copy to HOD CSE

  
Principal

**PRINCIPAL**  
**AVANTHI INSTITUTE OF ENGG. & TEC**  
**Cherukupally (V), Chittivalasa (SAI**  
**Bhogapuram (M),**  
**Vizianagaram (Dist.)-531162**



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Accredited by NAAC)

Approved by AICTE, Recognized by the Govt. of A.P. & Permanently Affiliated to JNTU, Kakinada)

Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08922-279884  
7997903696

Cherukupally,  
Date: 22-1-2022

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally (Village)

To  
Managing Director  
IFLY Academy  
47-3-29/2, Tilak road  
Visakhapatnam-530016

Respected Sir,

Sub: Project Completion -- Testing reg.

The project has been executed and completed. It has already been tested with the test data provided.

Now, I request you to provide necessary facilities for the team to complete the testing to the limits of your satisfaction.

The team will visit your location on 28-1-2022

Thanking you,

  
PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

Principal





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

Cherukupally,  
Date: 15.03.2022

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally (Village)

To  
Managing Director  
Teck Team Solutions  
Door No 1-20/1, Pulagalipalem, pendurthi  
Visakhapatnam-531173

Dear Sir,

Sub.: Request to provide us with consultancy work-Reg.

We, Avanthi Institute of Engineering and Technology, are pleased to introduce ourselves as an emerging concern in the field of engineering education and software services. Avanthi Institute of Engineering and Technology is a professionally managed by a team of enthusiastic and qualified development team.

We humbly request you for an opportunity to prove ourselves by providing us project consultancy work.

Looking forward for your positive response.

Thank you



Copy to ECE HOD

Principal  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

**Work-Order for Research Project**

Date 4<sup>th</sup> April 2022,

Company Name: Teck Team Solutions,

Work Provider: Mr. Nallamilli Venkata Reddy, CEO

Faculty Name & address:

Mrs K.Syamala,

Associate Professor,

Avanathi Institute of Engineering and Technology,

Department of Electronics and Communication Engineering,

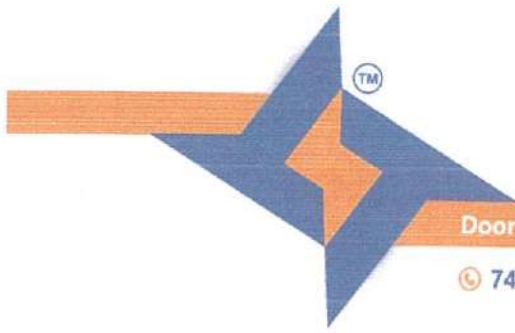
Email : syamala.kanchimani@gmail.com

Phone : 9849591737

We feel happy to inform you that the project proposal "CT and MRI Enhancement Based on Image Fusion Techniques" has been accepted as a research work to, Mrs K.Syamala Associate Professor, Department of ECE. your services are retained for a period of 15 months on temporary basis and you are not entitled to claim the permanency of the employment or the developed project. This agreement will be between Mrs K.Syamala, Associate Professor, Avanathi Institute of Engineering and Technology, & Teck Team Solutions and cannot be shared to other third party. Your services are taken on the following terms and conditions:

**Business Terms:**

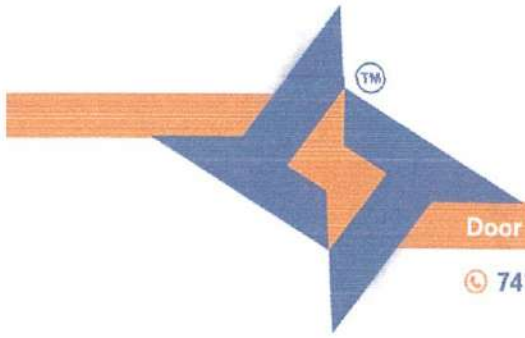
Teck Team Solutions is a Training & Innovative Product development firm. The company is registered in India at Visakhapatnam, which provides training on Industry 4.0 technologies in the domain of Electronics, Student Entrepreneurs, Innovation Challenges and also Entrepreneurship skill development among youth. The company is a platform to explore their innovative ideas into reality The Company focuses on the design, development and production of innovative products which are useful and identified as need for the society in different ways. TTS initiated product development and is continuously working in R & D with innovative thinking that involves Bio-medical applications.



## Terms & Conditions:

1. The assigned task is to be completed in the specified time and the time schedule is to be maintained as per the terms of the company.
2. A report on the work is to be submitted every two weeks to be Teck Team Solutions to check the progress of work till the completion of the project.
3. A final report is to be submitted after the completion of the project and assure that the work is kept confidential.
4. The link/hard copy of the work is to be communicated through proper communication media as per our discussion.
5. The researcher is not permitted to approach directly or indirectly the client and solicit services with the client by circumventing Teck Team Solution and without written permission from the company.
6. The payments are made directly from Teck Team Solutions.
7. The project is sanctioned for a period of Fifteen Months and the extension of the project period if needed will be sanctioned up two months based on the work progress.
8. The project is sanctioned for an amount of Rs1, 30,000/- (One Lakh Thirty thousand) rupees only.
9. Full amount payment shall be made on one time basis to the researcher strictly after completion and submission of all the necessary documents as per the terms of Teck Team Solutions.
10. Project is to be explained to our team, one month prior to the sanctioned time as a pretest service and be available on month after completion as post-service.
11. Any clarifications related to the work or terms can be clarified at Teck Team Solutions as per the requirements.
12. Data related to the work should be legally protected and should not disclose or share the information to the others under any circumstances.





# TECK TEAM SOLUTIONS

A Training & Product Development Firm

Door No 1-20/1, Pulagalipalem, Pendurthi (M), Visakhapatnam (D) - 531173

☎ 7416067555 ✉ teckteams@gmail.com 🌐 www.teckteamsolutions.com

13. It is necessary to maintain the hard/soft copy of signed invoice. Also, mention the Bank Name, Account Number and Branch Details, IFSC along with the mailing address, Contact number, PAN Card, & Service Tax Number if applicable.

Contact person

Mr. Nallamilli Venkata Reddy,

Cell: +91 7416067555

Email: [info@teckteams.com](mailto:info@teckteams.com)

Website: <https://teckteamsolutions.com/>

For

Authorized signatory

All the terms and conditions are read and I have understood all the implications thereof. I agree to the above terms and conditions and in token of my acceptances I hereby affix the signature/acknowledge to this document.

  
Mrs K.Syamala

Associate Professor,

Avanthi Institute of Engineering Technology,

Vizianagaram, Andhra Pradesh.





Mr. Nallamilli Venkata Reddy,

Founder & CEO,

Teck Team Solutions,

Visakhapatnam, Andhra Pradesh.





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,  
Date: 7.04.2022

From  
The Principal,  
Avanathi Institute of Engineering and Technology,  
Cherukupally.

To  
Managing Director  
Teck Team Solutions  
Door No 1-20/1, Pulagalipalem, pendurthi  
Visakhapatnam-531173

Respected sir,

Sub: Under taking Project Development.....

Ref: Your letter dated .....

At the outset, I would like to thank you for your offer. As you are aware, Avanathi Institute of Engineering and Technology is a growing organization and has been thinking of having tie-ups with industry for our various branches of Engineering and technology. Infact Institution – Industry and co-operation is the most talked about subject in seminars and workshops.

After assessing our strengths, I have earmarked the Electronics and Communication Engineering Department of this institute to be our outsourcing partner. The department is adequately staffed and necessary infra structure.

Thanking you

Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

Copy to HOD ECE





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,  
Date: 12.05.2022

From  
The Principal,  
Avanathi Institute of Engineering and Technology,  
Cherukupally.

To  
Managing Director  
Teck Team Solutions  
Door No 1-20/1,Pulagalipalem,pendurthi  
Visakhapatnam-531173

Respected sir,

**Sub:** Project Development Team. I'm pleased to depute.

1. Mrs.K.Syamala
2. Ms.B.Pravallika

For the necessary work.

Thanking You,

Copy to HOD ECE



Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 14.06.2022

The Principal,  
Avanathi Institute of Engineering and Technology,  
Cherukupally (Village)

To  
Managing Director  
Teck Team Solutions  
Door No 1-20/1, Pulagalipalem, pendurthi  
Visakhapatnam-531173

Respected sir,

**Sub:** Project Development--Reg

**Ref:** Your letter dated

The idea is to give exposure to our faculty and students to the actual software development environment.

The consultancy in the initial phase is not very keen on income generation. As such, we have no problem in accepting your quotation for Rs 1,30,000/- (One lakh Thirty Thousand only)

Thanking you,

Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

Copy to HOD ECE





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NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 09.06.2023

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

To  
Managing Director  
Teck Team Solutions  
Door No 1-20/1, Pulagalipalem, pendurthi  
Visakhapatnam-531173

Respected Sir,

Sub: Project Completion -- Testing reg.

The project has been executed and completed. It has already been tested with the test data provided.

Now, I request you to provide necessary facilities for the team to complete the testing to the limits of your satisfaction.

The team will visit your location on 12.06.2023.

Thanking you,



Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

To

The Principal  
Avanthi Institute of Engineering &  
Technology, Vizianagaram.

**Sub:** Looking for Doctoral Level Professors who can work for our Company Research project.

Dear Sir,

I'm Mr. G. Rambabu, working as one of the Directors of Grafx IT Solutions Pvt. Ltd. which is located at Visakhapatnam in Andhra Pradesh, India.

Our nature of business is to design Humanoid Robots Manufacturing, Training & Development of 3D Printing Technology, with experience in outcome based programmers like Workshops, Seminars, Guest Lectures, Virtual training for Government, Industries & Academic Institutions.

We are looking for team of professors at your college in Computer Science Engineering who can work for our advance research project in developing critical AI software for Medical Robotics in processing of Contact less human health diagnostic system. If your college is interested to work in collaboration, we forward further documentation & NDA Le (Non Disclosure Agreement).

Looking forward & Thank You,

  
Director  


-: CIN NO. : U72900AP2009PTC064099 :- -: GSTIN : 37AADCG5165C2ZR :-

Hyderabad Office : 103, Swathi Manors, Mytrivanam Road, Ameerpet, Hyderabad, Ph. : 9848885237, 98482 94142





## **PREAMBLE**

Grafx IT Solutions Pvt. Ltd. is endeavors to communicate science & technology (S&T), stimulates scientific and technological temper and coordinates & facilitates the initiatives at various levels. To create excitement and generate awareness about advances in science and technology to enable informed decision-making at grass root level. It takes S&T to among various target groups and encourages intelligent debates on topical & developmental issues, which need S&T based information.

We undertake broad spectrum of activities concerning S&T communication, universities, academic institutions, science cities, science museums, research laboratories, science and technology councils in states and union territories, radio and television channels, science based non governmental agencies/organizations and a whole lot mosaic of S&T setups in the country are our partners and messengers in every nook and corner in the country. It creates linkages and fosters cooperation and forges alliances at national as well as international level with appropriate organizations, groups, agencies, institutions, and so on. It has to package, articulate and popularizes strength of Indian S&T achievements, organizations and Infrastructure within & outside country.

## **PART-A**

### **(General Information of the Project)**

#### **AIM of the Project:**

When Covid entered our life during the pandemic, we experienced both highs and lows, and we now have to learn to deal with those circumstances. In order to ensure the safety precautions for our doctors without jeopardizing their precious lives, our renowned organization has stepped forward to work day and night to provide the best contactless service.

This robot's special capacity allows it to mimic how doctors commonly assess and identify a human body's vulnerabilities. It checks the patients' vital signs, including their SpO<sub>2</sub>, temperature, and heart rate (bpm), and sends them to have their CRP checked in the diagnostics centre before seeing a doctor.

This entire process is designed to assure that no one will fall victim to Covid and to uphold the World Health Organization's (W.H.O.) safety protocols. The aforementioned was entirely created by the company utilizing cutting-edge computer vision technology and evaluated with an accuracy level that serves as a benchmark for the business.

The college is required to develop a special rPPG methodology. Remote photoplethysmography (rPPG) algorithms have seen substantial development during the past ten years. As a result, for static participants, pulse rate may now be precisely predicted from video data. The precision of these algorithms and benchmark data sets, however, are not realistic under realistic circumstances. In this article, we offer a brand-new rPPG technique that permits heart rate monitoring using video from a regular webcam. The program can track rapid pulse rate variations and is resilient to conditions like changing lighting or subject movement.

This is accomplished by the algorithm estimating the pulse rate and then specifying it with high time resolution in order to thoroughly examine the suggested performance in all circumstances, such as blinking illumination, voice, and motions with significant amplitudes. Two streamlined iterations of the method that also produced competitive results were tried. However, the whole technique outperformed its simplified equivalents when used with footage of human movement ( $p < 0.001$ ).

## **PART-B**

### **(STANDARD TERMS & CONDITIONS OF SUPPORT)**

1. The project must be completed within 6 months, extended by 2 months if necessary.
2. Ideas and problems must not be shared with third parties such as circuits, algorithms, designs, or software. Everything is project and company related.
3. No part of the grant will be passed on to other societies/institutions/organizations by the grant recipient unless payment has been authorized in advance based on an approved proposal.
4. The scholarship recipient will receive her financial pledge of Rs 48,000 as a stipend.
5. Beneficiary will receive payment in two installments. The first payment will be made after 3 months of the project duration and the second payment will be made after the project is completed.

6. Grant under a major head shall not be utilized for a purpose other than that for which it is intended without prior approval.
7. Grafx IT Solutions reserves the right to terminate support to the project at any stage, if it is convinced
8. The grantee society/institute/body shall maintain separate audited accounts for the projects, to be furnished and closed within the six months of the last budgeted activity of the project or of the financial year in which the last installment of the grant is sanctioned, whichever is earlier.
9. The project completion report has to be submitted within two months of completion of actual work which is approved as per letter of sanction.
10. For all the software developed/produced under the supported project, unless approved specifically otherwise, the Grafx IT Solutions shall be the sole copyright holder and acknowledgment of the fact must be explicitly made in a manner to be specified/mutually agreed in all copies of the software (Software here implies a manuscript, a script, or a publication, a film or a video program, a slide-set, cassette, a disc or a floppy).
11. The project proposals should clearly focus on any of the areas under respective programmers listed in this document and should be in conformity with the scope of the scheme.
12. The proposal should be routed through the Head of the Institute and should be submitted in the prescribed format given in this document at any time during the year.
13. Further the project can be terminated in absence of relevant information to be provided by the organizing Institution at any stage of processing.

**(ENCLOSURES TO BE SUBMITTED WITH THE  
PROPOSAL)**

Please submit authenticated copies of the following documents along with requisite certificates

1. College Registration Certificates
2. Memorandum of Association with college
3. Bio-data of the Members of the Executive Body of the society
4. Rules, regulations and by-laws
5. This project approves only for post doctoral student only.
6. Declaration to the effect that Society/Agency or any of its functionaries is not and has never been involved/implicated in any corrupt practices.
7. Aadhaar card of the Doctoral Professors



8. Latest audited statement of accounts for the last three years
9. Description of facilities available
10. List of names and addresses of experts/institutions to be involved with the project
11. Certificate from the coordinators/investigator of the project
12. Endorsement from the Head of the proposer agency
13. Details of the proposal in brief for computerization
14. List of completed and ongoing projects at least for the last three years with details such as title, date of commencement supporting agencies (s), outcome, whether ongoing or completed etc. please enclose copy/copies of sanction letter (s)/ sanction order number for the last three years.
15. Detailed Bio-Data of Project Investigator/ Project coordinator. Coordinator and Associated Scientist(s)/Resource persons with the project.

  
Director





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Accredited by NAAC)

Approved by AICTE, Recognized by the Govt. of A.P. & Permanently Affiliated to JNTU, Kakinada)

Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08922-279884  
7997903696

Cherukupally,

Date: 7.04.2021

From  
The Principal,  
Avanathi Institute of Engineering and Technology,  
Cherukupally.

To  
Managing Director  
Grafx IT Solutions Pvt. Ltd  
47-3-29/2 5th lane, DwarakaNagar  
Visakhapatnam-530016

Respected sir,

Sub: Under taking software development..

Ref: Your letter dated .....

At the outset, I would like to thank you for your offer. As you are aware, Avanathi Institute of Engineering and Technology is a growing organization and has been thinking of having tie-ups with industry for our various branches of Engineering and technology. Infact Institution – Industry and co-operation is the most talked about subject in seminars and workshops.

After assessing our strengths, I have earmarked the Computer Science and engineering Department of this institute to be our outsourcing partner. The department is adequately staffed and necessary infra structure.

Thanking you

Copy to HOD CSE

  
Principal  
PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162



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Approved by AICTE, Recognized by the Govt. of A.P. & Permanently Affiliated to JNTU, Kakinada)

Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

: 08922-279884  
7997903696

Cherukupally,

Date: 26.05.2021

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

To  
Managing Director  
Grafx IT Solutions Pvt. Ltd  
47-3-29/2 5th lane, DwarakaNagar  
Visakhapatnam-530016

Respected sir,

**Sub:** Software Development Team. I'm pleased to depute.

1. Dr. Gandhi Satyanarayana
2. Mr.S.Keseva Rao
3. Mrs.A.Swathi

For the necessary work.

Thanking You,

Copy to HOD CSE

Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.) - 531162





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Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08922-279884  
7997903696

Cherukupally,

Date: 7.06.2021

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally (Village)

To  
Managing Director  
Grafx IT Solutions Pvt. Ltd  
47-3-29/2 5th lane, DwarakaNagar  
Visakhapatnam-530016

Respected sir,

**Sub:** Project Development- Estimation reg.

The development team has concluded that the time frame required for completing the project will be as under.

Estimation cost for the project will be 305 hours

1. Development team  $305 \times 158 = 48000/-$

The total estimate as cost of the project will be 48,000/- (Forty Eight Thousand only)

Thanking You

  
Principal

Copy to HOD CSE

PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162



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Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08922-279884  
7997903696

Cherukupally,  
Date: 14.06.2021

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally (Village)

To  
Managing Director  
Grafx IT Solutions Pvt. Ltd  
47-3-29/2 5th lane, DwarakaNagar  
Visakhapatnam-530016

Respected sir,

**Sub:** Project Development-Reg


**Ref:** Your letter dated

The idea is to give exposure to our faculty and students to the actual software development environment.

The consultancy in the initial phase is not very keen on income generation. As such, we have no problem in accepting your quotation for Rs 48,000/- (Forty Eight Thousand only)

Thanking you,

Copy to HOD CSE

  
Principal  
PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162



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Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

: 08922-279884  
7997903696

Cherukupally,  
Date: 26-12-2021

From  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

To  
Managing Director  
Grafx IT Solutions Pvt. Ltd  
47-3-29/2 5th lane, DwarakaNagar  
Visakhapatnam-530016

Respected Sir,

Sub: Project Completion -- Testing reg.

The project has been executed and completed. It has already been tested with the test data provided.

Now, I request you to provide necessary facilities for the team to complete the testing to the limits of your satisfaction.

The team will visit your location on 28-12-2021.

Thanking you,

  
Principal

PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162





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NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram -

531162. [www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

Lr.No. Circular/AIET/R&D/2021-22

Date 29.09.2021

## CIRCULAR

**Sub:** Seed Money for R&D Projects

An R&D project involving a regular faculty member or team of faculty members will be given a seed budget of no more than Rs. 15,000 per project. The approval of seed money for an application project will depend on review by a committee that the principal has constituted. To apply for seed money in this regard, all faculty members must deliver a hard copy of their project proposals to the principal by no stretch of time than November 01, 2021. Please get in contact with the HODs of your respective departments for further details. The smooth functioning of the plan will be the responsibility of the R&D coordinators of each department.



Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

Copy to:

1. Principal Office
2. Director HR
3. All HODs (CSE, MECH, EEE, ECE, CIVIL, CSM, CSD, BS&H, MBA)
4. Administration Office
5. File

---

Avanthi Institute of Engineering and Technology



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

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531162. [www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

Lr. No. Circular/AIET/2021-22

Date 07.10.2021

## NOTICE

For the final evaluation of the R&D projects to be approved under the institution Seed Money Scheme, assessment committees are hereby established as proceeds.

S. No.	Name	Department
1	Dr. B. Avinash Ben	Professor, Coordinator, Mech
2	Dr. Raja Santhosh	Professor, Mech
3	Dr. R. Swapna	Professor, BS&H
4	Dr. A. Balakrishna	Professor, CSE
5	Dr. E. Ranjit Kumar	Professor, BS&H
6	Mrs. K. Syamala	Associate Professor, ECE
7	Mr. B. Anand Swaroop	Associate Professor, EEE



Avanathi Institute of Engineering and Technology



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531162. [www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

Date: 18.10.2021

Note on seed money proposals: Regd.

With reference to the circular (Lr. No. Circular/AIET/R&D/2021-22) dated 29.09.2021 regarding inviting R&D proposals under seed money scheme and the assessment committee evaluated all the submitted proposals based on the novelty and future scope and shortlisted 17 projects and further recommended for seed money grant. Total budget of all the projects will be 189,000/-for the academic year 2021-22.



Principal

PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
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Avanthi Institute of Engineering and Technology





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## List of Proposals Shortlisted for Seed Money Grant

S. No.	Name of the Faculty	Department	Title	Amount
1	Dr. Avinash Ben	MECH	Damping behavior and self-healing performance evaluation of microcapsules reinforced epoxy composites by Impulse Excitation technique	10,000
2	Dr. A. M.V. Praveen	MECH	Experimental study of surface roughness and cutting forces on stainless steel grade materials	10,000
3	Dr. A. Chandra Sekhar	CSE	Ensemble Deep Learning for Brazil Currency Coin Prediction	11,000
4	Dr. R. Swapna	BS&H	Enhanced physical properties of ZEO thin films for device applications	10,000
5	Mr. P. Anil Kumar	MECH	Design of LPG Mould Billet by varying thickness and stiffness using FEM	12,000
6	Mr. G. Ramu	MECH	Modeling and Analysis of Automotive Engine Crankshaft Made of Composite and Functionally Graded Materials	12,000
7	Mr. Sk. H Shariff	MECH	Influence of FeCl <sub>3</sub> Nanoparticle Dispersion in Cassia fistula Biodiesel Blend on the Analysis of Vibration and Noise Intensity of a Diesel Engine	12,000
8	Mr. L. Bhavani Shankar	MECH	Modeling and analysis of rocket nozzle models by using CATIA and ANSYS CFD	10,000
9	Mr. S. Suman Dutta	MBA	A study on consumer purchase behavior in organized retail outlets in Visakhapatnam city	12,000
10	Mr. B. Anand Swaroop	EEE	Optimal Reclosing Time To Improve Transient Stability In Distribution System	12,000

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11	Mrs. S. Santhoshi Bhavani	ECE	Efficient Design of Truncation and Rounding Based Approximate multiplier	11,000
12	Mr. K. Avinash Kumar	ECE	Comparative Analysis of Pulsed Latch and Flip-Flop Based Shift Register for High Performance and Low Power Systems	14,000
13	Mr. K. Syamala	ECE	Learning Global Average Attention Pooling (GAAP) on Resnet50 Backbone for Person Re-identification Problem	11,000
14	Mr. S. Kesava Rao	CSE	Software Testing Techniques	10,000
15	Mr. K. Mehar Prasad	CSE	Data Leakage Detection Using Cloud Computing	10,000
16	Mrs. Sangita Mishra	CSE	Cellular Automata and their Applications	10,000
17	Mr. P. Satyanarayana	CSE	Diabetic retinopathy detection using Deep learning	12,000



Principal

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531162. www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 08.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Dr. Avinash Ben working a Professor in Department of Mechanical Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
<b>Damping behavior and self-healing performance evaluation of microcapsules reinforced epoxy composites by Impulse Excitation technique</b>	Mechanical Engineering	10,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



Signature of the Project Investigator

Department: *mechanical Engg.*

Avanthi Institute of Engineering and Technology





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531162. www.aietta.ac.in, principal@aietta.ac.in

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/01

**Sub:** Financial sanction of the research project titled “**Damping behavior and self-healing performance evaluation of microcapsules reinforced epoxy composites by Impulse Excitation technique**” for **Mr. Avinash Ben** under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 10,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TECH  
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## UTILIZATION CERTIFICATE

**Academic Year: 2021-2022**

Certified that the grant of Rs. 10,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Damping behavior and self-healing performance evaluation of microcapsules reinforced epoxy composites by Impulse Excitation technique**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.

*N. Chandra*

Signature of the Project Investigator

Department: *mechanical Engg.*



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Cherukupally,

Date: 11.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Dr. A. M. V. Praveen working a Professor in Department of Mechanical Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
Experimental study of surface roughness and cutting forces on stainless steel grade materials	Mechanical Engineering	10,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



  
Signature of the Project Investigator

Department: MECHANICAL

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## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/02

**Sub:** Financial sanction of the research project titled “**Experimental study of surface roughness and cutting forces on stainless steel grade materials**” for **Dr. A. M. V. Praveen** under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 10,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

  
Principal

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## UTILIZATION CERTIFICATE

Academic Year: 2021-2022

Certified that the grant of Rs. 10,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Experimental study of surface roughness and cutting forces on stainless steel grade materials**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



*M Praveen*

Signature of the Project Investigator

Department: *MECHANICAL*



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Cherukupally,

Date: 09.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Dr A Chandra Sekhar working a Professor in Department of Computer Science and Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
Ensemble Deep Learning for Brazil Currency Coin Prediction	Computer Science and Engineering	11,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



Signature of the Project Investigator

Department: *computer science  
and engineering*

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## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/03

**Sub:** Financial sanction of the research project titled “Ensemble Deep Learning for Brazil Currency Coin Prediction” for Mr. A. Chandra Sekhar under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 11,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

Principal

PRINCIPAL

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## UTILIZATION CERTIFICATE

**Academic Year: 2021-2022**

Certified that the grant of Rs. 11,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Ensemble Deep Learning for Brazil Currency Coin Prediction**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.

Signature of the Project Investigator

Department: *computer Science  
and Engineering*



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Cherukupally,

Date: 12.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Dr. R. Swapna working a Professor in Department of Basic Sciences and Humanities in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

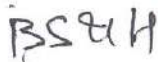
Name of the Project	Department	Estimated Cost
Enhanced physical properties of ZEO thin films for device applications	Basic Sciences and Humanities	10,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



  
Signature of the Project Investigator

Department: 

Avanthi Institute of Engineering and Technology





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## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/04

**Sub:** Financial sanction of the research project titled “**Enhanced physical properties of ZEO thin films for device applications**” for **Mrs. R. Swapna** under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 10,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

Principal

PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TEC  
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## UTILIZATION CERTIFICATE

**Academic Year: 2021-2022**

Certified that the grant of Rs. 10,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Enhanced physical properties of ZEO thin films for device applications**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



Signature of the Project Investigator

Department: BSAH



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Cherukupally,

Date: 16.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.


I am Mr. Anil Kumar working as an Assistant Professor in Department of Mechanical Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
Design of LPG Mould Billet by varying thickness and stiffness using FEM	Mechanical Engineering	12,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



  
Signature of the Project Investigator

Department:

Mech.

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## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/05

**Sub:** Financial sanction of the research project titled “**Design of LPG Mould Billet by varying thickness and stiffness using FEM**” for **Mr. P. Anil Kumar** under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 12,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

Principal

PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
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## UTILIZATION CERTIFICATE

Academic Year: 2021-2022

Certified that the grant of Rs. 12,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Design of LPG Mould Billet by varying thickness and stiffness using FEM**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.

Signature of the Project Investigator

Department: Mech.



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531162. www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 09.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mr. Ramu working as an Associate Professor in Department of Mechanical Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.


Name of the Project	Department	Estimated Cost
<b>Modeling and Analysis of Automotive Engine Crankshaft Made of Composite and Functionally Graded Materials</b>	Mechanical Engineering	12,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



  
Signature of the Project Investigator

Department: 

---

Avanthi Institute of Engineering and Technology





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram -  
531162. www.aietta.ac.in, principal@aietta.ac.in

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/06

**Sub:** Financial sanction of the research project titled “**Modeling and Analysis of Automotive Engine Crankshaft Made of Composite and Functionally Graded Materials**” for **Mr. G.Ramu** under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 12,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO),  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162



Copy to:

1. Principal Office
2. Director HR
3. All HODs (CSE, MECH, EEE, ECE, CIVIL, CSM, CSD, BS&H, MBA)
4. Administration Office
5. File

Avanthi Institute of Engineering and Technology



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531162. [www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## UTILIZATION CERTIFICATE

Academic Year: 2021-2022

Certified that the grant of Rs. 12,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Modeling and Analysis of Automotive Engine Crankshaft Made of Composite and Functionally Graded Materials**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.

Signature of the Project Investigator

Department: *Mech.*



---

Avanthi Institute of Engineering and Technology



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531162. www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 11.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mr Sk. H Shariff working as an Associate Professor in Department of Mechanical Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
<b>Influence of FeCl<sub>3</sub> Nanoparticle Dispersion in Cassia fistula Biodiesel Blend on the Analysis of Vibration and Noise Intensity of a Diesel Engine</b>	Mechanical Engineering	12,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



  
Signature of the Project Investigator

Department: Mech.

Avanthi Institute of Engineering and Technology





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531162. www.aietta.ac.in, principal@aietta.ac.in

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/07

**Sub:** Financial sanction of the research project titled “**Influence of FeCl<sub>3</sub> Nanoparticle Dispersion in Cassia fistula Biodiesel Blend on the Analysis of Vibration and Noise Intensity of a Diesel Engine**” for **Mr. Sk. H Shariff** under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 12,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

Principal



PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

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Avanthi Institute of Engineering and Technology



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## UTILIZATION CERTIFICATE

Academic Year: 2021-2022

Certified that the grant of Rs. 12,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled "**Influence of FeCl<sub>3</sub> Nanoparticle Dispersion in Cassia fistula Biodiesel Blend on the Analysis of Vibration and Noise Intensity of a Diesel Engines**" has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



  
Signature of the Project Investigator

Department: Mech.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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531162. www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 08.10.2021

To  
The Principal,  
Avanathi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mr. L. Bhavani Shankar working as an Assistant Professor in Department of Mechanical Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
Modeling and analysis of rocket nozzle models by using CATIA and ANSYS CFD	Mechanical Engineering	10,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



  
Signature of the Project Investigator

Department: Mechanical

---

Avanathi Institute of Engineering and Technology





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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531162. www.aietta.ac.in, principal@aietta.ac.in

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/08

**Sub:** Financial sanction of the research project titled “Modeling and analysis of rocket nozzle models by using CATIA and ANSYS CFD” for **Mr. L. Bhavani Shankar** under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 10,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.



Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAC)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

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Avanthi Institute of Engineering and Technology



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531162. [www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## UTILIZATION CERTIFICATE

Academic Year: 2021-2022

Certified that the grant of Rs. 10,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Modeling and analysis of rocket nozzle models by using CATIA and ANSYS CFD**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



  
Signature of the Project Investigator

Department: *Mechanical*



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531162. www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 12.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mr. S. Suman Dutta working as an Associate Professor in Department of Management Studies in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
<b>A study on consumer purchase behavior in organized retail outlets in Visakhapatnam city</b>	Management Studies	12,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



*S. Suman Dutta*  
Signature of the Project Investigator

Department: *MBA*

Avanthi Institute of Engineering and Technology





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531162. www.aietta.ac.in, principal@aietta.ac.in

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/09

**Sub:** Financial sanction of the research project titled “A study on consumer purchase behavior in organized retail outlets in Visakhapatnam city” for Mr. S. Suman Dutta under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 12,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

Principal



PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M).  
Vizianagaram (Dist.)-531162

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531162. [www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## UTILIZATION CERTIFICATE

Academic Year: 2021-2022

Certified that the grant of Rs. 12,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “A study on consumer purchase behavior in organized retail outlets in Visakhapatnam city” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



Signature of the Project Investigator

Department: MBA.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram -  
531162. www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 16.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mr. B. Anand Swaroop working as an Associate Professor in Department of the Electrical and Electronics Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
<b>Optimal Reclosing Time To Improve Transient Stability In Distribution System</b>	Electrical and Electronics Engineering	12,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



  
Signature of the Project Investigator

Department: *EEE*

---

Avanthi Institute of Engineering and Technology





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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531162. www.aietta.ac.in, principal@aietta.ac.in

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/10

**Sub:** Financial sanction of the research project titled “**Optimal Reclosing Time to Improve Transient Stability in Distribution System**” for **Mr. B. Anand Swaroop** under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 12,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.



Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Chittivalasa (SAC)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

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Avanthi Institute of Engineering and Technology



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531162. [www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## UTILIZATION CERTIFICATE

**Academic Year: 2021-2022**

Certified that the grant of Rs. 12,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Optimal Reclosing Time To Improve Transient Stability In Distribution System**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



  
Signature of the Project Investigator

Department: *EEE*

---

Avanthi Institute of Engineering and Technology



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531162. www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 11.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mrs. S.Santhoshi Bhavani working as an Associate Professor in Department of Electronics and Communications Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
<b>Efficient Design of Truncation and Rounding Based Approximate multiplier</b>	Electronics and Communications Engineering	11,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



*S S Bhavani*

Signature of the Project Investigator

Department: *ECE*

Avanthi Institute of Engineering and Technology





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531162. [www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/11

**Sub:** Financial sanction of the research project titled “Efficient Design of Truncation and Rounding Based Approximate multiplier” for Mrs. S. Santhoshi Bhavani under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 11,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

  
Principal

PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAC)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162



Copy to:

1. Principal Office
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Avanthi Institute of Engineering and Technology



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531162. [www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## UTILIZATION CERTIFICATE

**Academic Year: 2021-2022**

Certified that the grant of Rs. 11,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Efficient Design of Truncation and Rounding Based Approximate multiplier**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



*S S Bhevan*

Signature of the Project Investigator

Department: ECE



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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531162. www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 09.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mr. K. Avinash Kumar working as an Associate Professor in Department of Electronics and Communications Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
<b>Comparative Analysis of Pulsed Latch and Flip-Flop Based Shift Register for High Performance and Low Power Systems</b>	Electronics and Communications Engineering	14,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



Signature of the Project Investigator

Department: ECE

Avanthi Institute of Engineering and Technology





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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531162. www.aietta.ac.in, principal@aietta.ac.in

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/12

**Sub:** Financial sanction of the research project titled “Comparative Analysis of Pulsed Latch and Flip-Flop Based Shift Register for High Performance and Low Power Systems” for Mr. **K. Avinash Kumar** under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 14,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

Principal



PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

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531162. www.aietta.ac.in, principal@aietta.ac.in

## UTILIZATION CERTIFICATE

**Academic Year: 2021-2022**

Certified that the grant of Rs. 14,000/-, received from Avanathi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Comparative Analysis of Pulsed Latch and Flip-Flop Based Shift Register for High Performance and Low Power Systems**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



Signature of the Project Investigator

Department: *FCE*



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531162. [www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

Cherukupally,

Date: 12.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mrs. K. Syamala working as an Associate Professor in Department of Electronics and Communications Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
<b>Learning Global Average Attention Pooling (GAAP) on Resnet50 Backbone for Person Re-identification Problem</b>	Electronics and Communications Engineering	14,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



*K. Syamala*  
Signature of the Project Investigator

Department: ECE

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Avanthi Institute of Engineering and Technology





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram -  
531162. www.aietta.ac.in, principal@aietta.ac.in

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/13

**Sub:** Financial sanction of the research project titled “**Learning Global Average Attention Pooling (GAAP) on Resnet50 Backbone for Person Re-identification Problem**” for Mrs. K. Syamala under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 14,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

  
Principal



PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

Copy to:

1. Principal Office
2. Director HR
3. All HODs (CSE, MECH, EEE, ECE, CIVIL, CSM, CSD, BS&H, MBA)
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Avanthi Institute of Engineering and Technology



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531162. www.aietta.ac.in, principal@aietta.ac.in

## UTILIZATION CERTIFICATE

Academic Year: 2021-2022

Certified that the grant of Rs. 14,000/-, received from Avanathi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Comparative Analysis of Pulsed Latch and Flip-Flop Based Shift Register for High Performance and Low Power Systems**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



*K. S. S. S.*  
Signature of the Project Investigator

Department: *ECE*

---

Avanathi Institute of Engineering and Technology



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531162. www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 16.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mr. S. Kesava Rao working as an Associate Professor in Department of Computer Science Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
Software Testing Techniques	Computer Science Engineering	10,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



Signature of the Project Investigator

Department:

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Avanthi Institute of Engineering and Technology





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531162. www.aietta.ac.in, principal@aietta.ac.in

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/14

**Sub:** Financial sanction of the research project titled “**Software Testing Techniques**” for **Mr. S. Kesava Rao** under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 10,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.



  
Principal

PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

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531162. www.aietta.ac.in, principal@aietta.ac.in

## UTILIZATION CERTIFICATE

**Academic Year: 2021-2022**

Certified that the grant of Rs. 10,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Software Testing Techniques**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



Signature of the Project Investigator

Department: *C&E*



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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531162. www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 08.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mr. K. Mehar Prasad working as an Associate Professor in Department of Computer Science Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
Data Leakage Detection Using Cloud Computing	Computer Science Engineering	10,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



*K. Mehar Prasad*

Signature of the Project Investigator

Department: *CS&E*

Avanthi Institute of Engineering and Technology





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531162. www.aietta.ac.in, principal@aietta.ac.in

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/15

**Sub:** Financial sanction of the research project titled “**Data Leakage Detection Using Cloud Computing**” for **Mr. K. Mehar Prasad** under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 10,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

  
Principal



PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

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531162. www.aietta.ac.in, principal@aietta.ac.in

## UTILIZATION CERTIFICATE

Academic Year: 2021-2022

Certified that the grant of Rs. 10,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Data Leakage Detection Using Cloud Computing**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



*K. Meher Prasad*

Signature of the Project Investigator

Department: *CSE*



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531162. www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 16.10.2021

To  
The Principal,  
Avanthi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mrs. Sangiti Mishra working as an Associate Professor in Department of Computer Science Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
Cellular Automata and their Applications	Computer Science Engineering	10,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



Signature of the Project Investigator

Department:

Avanthi Institute of Engineering and Technology





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531162. www.aietta.ac.in, principal@aietta.ac.in

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/16

**Sub:** Financial sanction of the research project titled “Cellular Automata and their Applications” for Mrs. Sangita Mishra under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 10,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

Principal

PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162



Copy to:

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3. All HODs (CSE, MECH, EEE, ECE, CIVIL, CSM, CSD, BS&H, MBA)
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Avanthi Institute of Engineering and Technology



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531162. www.aietta.ac.in, principal@aietta.ac.in

## UTILIZATION CERTIFICATE

Academic Year: 2021-2022

Certified that the grant of Rs. 10,000/-, received from Avanathi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Cellular Automata and their Applications**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



Signature of the Project Investigator

Department: CSE

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Avanathi Institute of Engineering and Technology



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531162. www.aietta.ac.in, principal@aietta.ac.in

Cherukupally,

Date: 11.10.2021

To  
The Principal,  
Avanathi Institute of Engineering and Technology,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mr. P. Satyanarayana working as an Associate Professor in Department of Computer Science Engineering in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost
Diabetic retinopathy detection using Deep learning	Computer Science Engineering	12,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,



Signature of the Project Investigator

Department: *CSE*

---

Avanathi Institute of Engineering and Technology





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531162. www.aietta.ac.in, principal@aietta.ac.in

## SEED MONEY SCHEME GRANT SANCTION ORDER

Ref: AIET/R&D/2021-22/17

**Sub:** Financial sanction of the research project titled “**Diabetic retinopathy detection using Deep learning**” for **Mr. P. Satyanarayana** under SEED money scheme

The AIET management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 12,000.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

Principal



PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162

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Avanthi Institute of Engineering and Technology



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531162. www.aietta.ac.in, principal@aietta.ac.in

## UTILIZATION CERTIFICATE

**Academic Year: 2021-2022**

Certified that the grant of Rs. 12,000/-, received from Avanthi Institute of Engineering and Technology under the Seed Money Scheme, for the Research Project entitled “**Diabetic retinopathy detection using Deep learning**” has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.



Signature of the Project Investigator

Department: CSE

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Avanthi Institute of Engineering and Technology