

Gokaraju Rangaraju Institute of Engineering and Technology

Department of Computer Science and Engineering

R & D PROJECTS

	2021-22							
S. No	Academic Year	Project Title	Project Coordinator	Agency	Scheme	Amount Sanctioned	Remarks	
1.	2021-22	"IoT enabled sanitizer alert system for pre- school kids	Dr.Y.Vijayalata & Dr. Susmitha Valli. G	IEEE	HAC/SIGHT	30,000	On Going	
2.	2021-22	Empowering the Future Scientists and Engineers with Technology	Dr.Y.Vijayalata & Dr. Vijaya rama Raju	IEEE	HAC/SIGHT	30,000	2022 COMPLETED	
3.	2021-22	Machine learning enabled predictive maintainance system for automotive industry	Dr.K. Butchi Raju &Dr. S. Govinda rao	Ample Auto Tech Private Ltd	Ample Auto Tech Private Ltd	8,20,000	On Going	
4.	2021-22	A Predictive Model for energy management system using IoT and big data Processing	Dr. B. sankar Babu & Dr.K. Madhavi	Ample Auto Tech Private Ltd	Ample Auto Tech Private Ltd	6,80,000	On Going	

5.	2021-22	Fault Diagnosis of Three Phase Inverter using Artificial Intelligence and Machine Learning	Dr.Sai Hanuman & Dr.B.Phaneendr a Babu	InstaSine Power Technolo gies Pvt. Ltd	InstaSine Power Technologi es Pvt. Ltd	10,15,000	On Going
6.	2021-22	Artificial Intelligence (AI) Framework for Autonomous and Electric Vehicles	Dr.G.Ramesh & Dr.J.Praveen	Ample Auto Tech Pvt. Ltd	Ample Auto Tech Pvt. Ltd	10,62,380	On Going
7.	2021-22	Prediction of Mechanical Properties for Fibre Composites using Machine Learning Models	Dr Tanya & Dr Ramesh G	Measure India Pvt Ltd	Measure India Pvt Ltd	5,60,000	On Going



Acceptance (of Your Project Proposal) From HAC/SIGHT Group, IEEE Hyderabad Section-Reg.

Dr. Suresh Merugu <msuresh@ieee.org>

To: Vijaya Lata <vijaya@ieee.org>, susmitagv@gmail.com

Mon, Nov 22, 2021 at 11:02 AM

Dear Vijayalata & Susmitha,

Greetings from HAC/SIGHT Group, IEEE Hyderabad Section!

Project Title: "IoT enabled sanitizer alert system for pre-school kids"

I am writing to you regarding an HAC/SIGHT-IEEE Hyderabad Section Covid-response project taking place within the Hyderabad Section which was selected for funding. As is IEEE Policy, funds being transferred to India are sent on a monthly basis to our partner GIEEE, who then disburses to the Sections for them to make the funds available to the project team. Further, I request you to Complete the whole project with in 4 Months and every fifteen days you are requesteed to submit the Status of the Project.

Before we do so, however, we like to be certain that you are aware and acknowledge the funds will come to the section and agree to make them available to the project team. The Total fund Sanctioned is of 400 USD, I also request to receive the details for the account into which the funds should be transferred. The details needed are:

Bank Name Bank Branch Bank Account Name Bank Account Number IFSC Code MICR Code SWIFT Code

If you have any questions or concerns, please reach out to me at your earliest convenience. I look forward to hearing from you.

All the best,

=======

with regards

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Dr. Suresh Merugu,

M. Tech, Ph.D(IIT-R)

Chair, SIGHT, IEEE Hyderabad Section

Room No : 644-645 6th Floor, Al-Karim Trade Centre Ranigunj

Secunderabad Telangana, India 500003.

Mobile: 9848276627

Email: msuresh@ieee.org



GOKARAJU RANGARAJU Institute of Engineering and Technology



(Autonomous) Approved by AICTE, New Delhi - Permanently affiliated to JNTUH, Hyderabad

This is to confirm that Dr. Susmitha Valli. G & Dr. Y. Vijayalata has received a project titled: "IoT enabled sanitizer alert system for pre-school kids", in the month of November and partial funding for the project is sent to GRIET IEEE SB.

(IFFE GUETSE COUNTY) -

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Vijayalata Yellasiri <vijaya@ieee.org>

IEEE Region 10 HSPVT Support funds 2021: Funding Decision

Saurabh Soni <Saurabh.Soni@ieee.org>

Thu, Dec 2, 2021 at 3:58 PM

To: Vijayalata Yellasiri <vijaya@ieee.org>, vijayram_v@yahoo.com

Cc: "'Deepak Mathur' (deepakmathur@ieee.org)" <deepakmathur@ieee.org>, 董品 <jdong@nlpr.ia.ac.cn>, bala.peddigari@ieee.org, sreenivas.jasti@ieee.org

Dear Vijaya Yellasiri & V. VIJAYA RAMA RAJU,

Congratulations!

Thank you for submitting your proposal " Empowering the Future Scientists and Engineers with Technology " in response to IEEE R10 Humanitarian Sustainable Project & Volunteer Training Support Fund 2021. We appreciate you for the efforts taken in coming up with such a wonderful initiative in order to complete the objective of IEEE Region 10 HTA.

Given below are the offer and conditions for the grant.

OFFER & CONDITIONS:

- The IEEE Region 10 & IEEE Region 10 HTA will support this proposal up to an amount of US\$ 400. These funds must be used as per the budget submitted with your proposal.
- IEEE Region 10 assumes that the Project & Volunteer Training will follow the correct protocols and safety codes as outlined in applicable law for your area of residence.
- Funds will be granted as one instalment after the completion of the event. The grant will be issued after the submission of the final report and accounting of expenses (with proper receipts).

Please note:

- 1. The 'Message from IEEE on coronavirus COVID-19 Pandemic', particularly "We request that all members (Organizing team & Attendees) follow Covid-19 Protocol for their Activities."
- 2. This grant amount should not be utilized for the following i.e.
 - a. Volunteer travel expenses and their salary for training
 - b. Miscellaneous activity which is not mentioned in the proposal or which does not have any supporting proof.

REPORTING:

Once an event is conducted for this Call for Proposals where the Applicant shall provide a Final report & Expense Sheet within 15 days of its completion, preferably with photos or videos for social media sharing. The report should be done online through email only.

WE REQUEST YOU TO CONFIRM THE FOLLOWING TERMS

- 1. I accept the terms of this grant.
- 2. I make sure that the funds received are used for the project & Volunteer Training only.
- 3. The funds will be routed through the [IEEE Hyderabad Section] and we (IEEE R-10 HTA) request an acknowledgement from the Section's Chair/Treasurer regarding the above mentioned (2nd point) term.
- 4. I also accept that the event/training will be conducted before 31st of December, 2021 and I will report the event and the fund expenses before 15th of January, 2022. Which will allow sufficient time for transfer of funds.

For any help or further clarification, please contact [contact: ieeer102021@gmail.com].

Thanks and Regards,



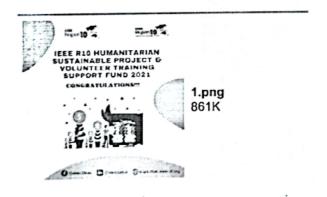
Saurabh J. Soni

Secretary IEEE Bombay Section CS Chapter (CH10246)
Admin IEEE R10 & IEEE HAC Program 2021
Member, IEEE R10 HTA 2021-2022
Member, IEEE Bombay Section
Project lead-SAWG IEEE Smart Village

mobile: +91 9967174868

email: sabhni721@gmail.com / saurabh.soni.@ieee.org

Linkedin



दिनांक	चैक संख्या	विवरण	,	,	V V
Date	Cheque No.	Particulars	निकाली गई रकम DR Amount	जमा की गई रकम CR Amount	शेय जमा राशि
10-09-2021* 11-11-2021 10/03/2022 10/03/2022 06/04/2022 13/04/2022 16/04/2022	129336 129338 129339	EV Interest (188210) IC SUSMITHA VALLE G (188210) NEFT C V VENUA RAJU (188210) SINTI 18822041006242:01-12-208210) ANBATI SAI ANIRUDH DEEPIKA BALLA PHANEENDRA BABU BOBBA S R R ENTREPRENEUR	20,000.00 30,000.00 10,600.00 4,740.00 24,125.00	1,417.00 20,237.00 1,201.00	2.21.233.72 Or ## 2.61.233.72 Or ## 1.71.233.73

AMPLE AUTO TECH PRIVATE LIMITED

Manufacturer & Exporter of Steering & Suspension Parts



Dt: 30-10-2021

No.:

To,

Principal Investigator

Dr K. Butchi Raju

Professor of Computer Science and Engineering & Dean Placements GokarajuRangaraju Institute of Engineering and Technology,

Bachupally, Kukatapally, Hyderabad,

Telangana, INDIA, PIN Code: 500 090.

Phone No. +91 7702964747

Email: butchiraju@griet.ac.in

Co-Principal Investigator

Dr S Govinda Rao

Department of Computer Science and Engineering GokarajuRangaraju Institute of Engineering and Technology, Bachupally, Kukatapally, Hyderabad,

Telangana, INDIA, PIN Code: 500 090.

Phone No: +91 8712848071 Email: sgovind486@griet.ac.in

Kind Attn: Principal, GRIET

Sub: Work order for Detailed Research Project for the Following Project Entitled:

Machine Learning Enabled Predictive Maintenance System for Automotive Industry

Ref: Your Project Proposal dt: 15-10-2021

Dear Sir.

In line with the discussions that we had; we are pleased to confirm you our work order to carry out the research project as mentioned in subject line.

You are requested treat this letter as Letter of Acceptance (LOA) with the entrusted work as per the details stated below:

Corporate Office & Unit -1: Plot No. 61, Sector- 3, IMT Manesar, Gurgaon, Haryana, India-122050

Telephone No.: +91-124-2290055, +91-124-4265757

E-mail: marketing@atek.in Website: www.atekworld.com CIN- U34300DL2005PTC134947 GSTIN - 06AAFCA1574R1Z9 000257

AMPLE AUTO TECH PRIVATE LIMITED

Manufacturer & Exporter of Steering & Suspension Parts



Deliverables:

S.No	Deliverables	Duration in Months
1	Literature Study	1
2	Identify ML Based Predictive Maintenance System	2
3	Develop Prototype Model	3
4	Deployment	3
5	Report Generation	3

We hereby accept your financial proposal of Rs. 8,20,000 (Eight Lakhs Twenty Thousand Rupees Only). Kindly send proforma invoice and bank details for further process. Time period for the project is 1 year from LOA issue date. Terms & Conditions remain same as per MoU.

Regards

Ayto Tech Pvt Ltd For Ample

Arvind Choudhary

Managing Director Ample Auto tech Pvt Ltd

407A, Sector-7, IMT, Manesar

Gurgaon, Haryana

Corporate Office & Unit -I: Plot No. 61, Sector- 3, IMT Manesar, Gurgaon, Haryana, India-122050

Telephone No.: +91-124-2290055, +91-124-4265757

E-mail: marketing@atek.in Website: www.atekworld.com CIN- U34300DL2005PTC134947 **GSTIN - 06AAFCA1574R1Z9**



GRIET/R&D/Consultancy/2021-22

07.02.2022

Ample A	auto Tech Pvt. Ltd.			
61, Sector-3, IMT, Manesar,		Invoice No: 06/01		
Gurgaor	n 122050	Invoice Date: 07/02/2022		
Haryana GST No: 06AAFCA1574R1Z9		Ref: MoU with ATEK		
CST NO.	I I I I I I I I I I I I I I I I I I I			
S.No.	Research Project	Charges (Rs) Per Annum	Total Amount	
1	Machine Learning Enabled Predictive Maintenance System for Automotive Industry	Rs. 8,20,000/-	Rs. 8,20,000	
		Net Amount	Rs. 8,20,000	

(Rupees Eight Lakhs Twenty Thousand Rupees Only)

PAN No.: AAAAG0915F

Bank Details:

Name of the Account

: Principal, GRIET - Grants

Name of the Bank

: Punjab National Bank

Account No.

: 18822041001025

Branch

: Bachupally

IFSC Code

: PUNB0188210

Killevichi Kaf Principal Investigator

(Dr K Butchi Raju)

Co- Principal Investigator

(Dr S Govinda Rao)

Authorized Signature

PRINCIPAL
GOKARAJU RANGARAJU
Institute of Engineering and Technology
Bachupally, Kutatpally, Hyderabad - 560 086



Institute of Engineering and Technology



(Autonomous)

Approved by AICTE, New Delhi - Permanently affiliated to JNTUH, Hyderabad

GRIET/SIRO/2021-22

07.02.2022

Certificate for GST Exemption under Government of India, Ministry of Finance

Notification No.: 45/2017 - Central Tax (Rate) dt. 14th November 2017 & Notification No.: 47/2017 - Integrated Tax (Rate) dt. 14th November 2017

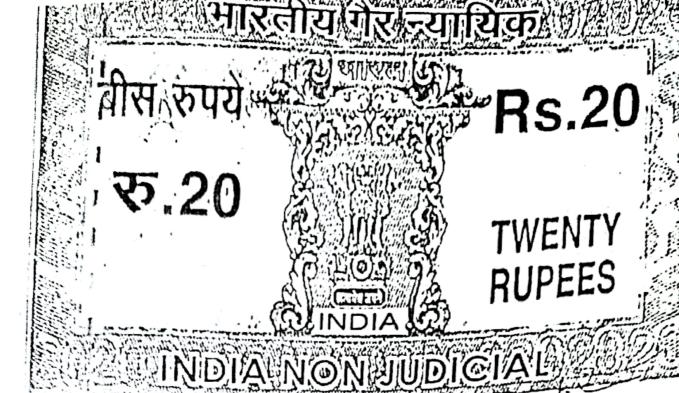
1	Name of Institute	Gokaraju Rangaraju Institute of Engineering & Technology
2	Name of the Department	Department of CSE
3	Registration No.	11/654/2015-TU-V
4	PAN	AAAAG0915F
5	Brief Description of item	Machine Learning Enabled Predictive Maintenance System for Automotive Industry
6	Value of Goods (Basic Price) in Indian Rupees	Rs. 8,20,000/-
7	Purpose for which item is required	Research
8	Name of Supplier Manufacturer	Ample Auto Tech Pvt. Ltd. 61, Sector-3, IMT, Manesar, Gurgaon 122050 Haryana
9	Invoice No. & Date	GRIET/R&D/Consultancy/2021- 22/06/1dt.07.02.2022

Certified that Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad is affiliated to Jawaharlal Nehru Technological University Hyderabad, Hyderabad and registered under DSIR – SIRO with Registration No. 11/654/2015-TU-V valid till 31.03.2023

This is also certified that the goods in respect of which concession from GST is claimed under this notification are required for Research Purpose Only.

Principal- GRIET

PRINCIPAL
GOKARAJU RANGARAJU
Institute of Engineering and Technology
Bachupally, Kukalpally, Hyeerabad - 500 ne



1607(2018 <u>acome</u> G. GANGARATU Rb 446. 7466 GRIET

MEMORANDUM OF UNDERSTANDING (MOU) FOR RESEARCH PARTNERSHIP AND COLLABORATION

This memorandum of understanding is made and executed on 21.12.2019

BY AND BETWEEN

Gekaraju Runguraju Institute of Engineering and Technology (GRIET), is an educational institute of higher learning, a premier institute of repute established in the year 1997, having its campus in Bachupally, Hyderabad - 500 090, Telangana (herein after referred to as "First Party") which expression shall unless the context requires it otherwise mean and include its Owners and permitted assigns.

Ample Auto Tech Pvt. Ltd., (herein after referred to as "Second Party") having its registered office at 61. Sector-3, IMT. Manesar, Gurgaon-122050, Harvana (GSTN No. - 06AAFCA1574R1Z9). which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns of ONE PART.

GRIFT and Ample Auto Tech Pvt. Ltd. are herein after individually referred to as "Party" and collectively known as "Parties".

WHEREAS:

GRIAT is the vibrant institute of higher learning and research facilities with eminent professors and well-equipped labs.

GCKARAJU RANGARAJU

Page 1 of 2

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For Ample Anto Tech Per L'

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AMPLE AUTO TECH PRIVATE LIMITED

Manufacturer & Exporter of Steering & Suspension Parts



Dt: 30.12.2021

To,

Dr. B. Sankara Babu (PI)

Professor, CSE Department,

Gokaraju Rangaraju Institute of Engineering & Technology,

Bachupally, Hyderabad 500090.

Telangana, INDIA.

&

Dr. K.Madhavi (Co-Pl)

Professor and Head, CSE Department,

Gokaraju Rangaraju Institute of Engineering & Technology.

Bachupally, Kukatapally, Hyderabad 500 090.

Telangana, INDIA.

Kind Attn: Principal, GRIET

Sub: Work order for Detailed Research Project for the Work of the following Project:

A Predictive Model for Energy Management System using IOT and Big Data Processing

Ref: Your Project Proposal dt: 20.12.2021

Dear Sir.

In line with the discussions that we had; we are pleased to confirm you our work order to carry out the research work for the works mentioned in the project proposal. You are requested to consider this as Letter of Acceptance (LOA) with the entrusted work as per the details stated below:

Deliverables:

SNO	Name of the Activity	Duration in Months
1	Literature review	1
2	Identifying the Problem Definition	2
3	Sensor identification and Proto-type model development	3
4	Deployment	3
5	Data Analysis and report generation	3

Corporate Office & Unit -I: Plot No. 61, Sector- 3, IMT Manesar, Gurgaon, Haryana, India-122050

Telephone No.: +91-124-2290055, +91-124-4265757

E-mail: marketing@atek.in Website: www.atekworld.com CIN- U34300DL2005PTC134947 GSTIN - 06AAFCA1574R1Z9

002255



AMPLE AUTO TECH PRIVATE LIMITED

Manufacturer & Exporter of Steering & Suspension Parts



We hereby accept your financial proposal of Rs 6,80,000/- (Six Lakhs Eighty thousand Rupecs Only). Kindly send proforma invoice and bank details for further process. Time period for the project is 1 year from LOA issue date. Terms & Conditions remain same as per MoU.

Regards,

For Ample Auto Tech Pvt Ltd

Arving ChoudharyDirector

Managing Director

Ample Auto tech Pvt Ltd

407A, Sector-7, IMT, Manesar

Gurgaon, Haryana

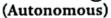
Corporate Office & Unit -I: Plot No. 61, Sector- 3, IMT Manesar, Gurgaon, Haryana, India-122050 Telephone No.: +91-124-2290055, +91-124-4265757

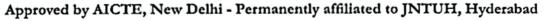
E-mail: marketing@atek.in Website: www.atekworld.com CIN- U34300DL2005PTC134947 GSTIN - 06AAFCA1574R129

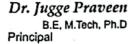




Institute of Engineering and Technology







Invoice

GRIET/R&D/Consultancy/2021-22

07.02.2022

Ample A	Auto Tech Pvt. Ltd.		
61, Sector-3, IMT, Manesar, Gurgaon 122050 Haryana		Invoice No: 06/02 Invoice Date: 07-02-2022 Ref: MoU with ATEK	
GST No: 06AAFCA1574R1Z9			
S.No.	Research Project	Charges (Rs) Per Annum	Total Amount
1	A Predictive Model for Energy Management System using IOT and Big Data Processing	Rs. 6,80, 000/-	Rs. 6,80,000/-
		Net Amount	Rs. 6,80, 000/-

(Rupees Six Lakhs Eighty thousand Rupees Only)

PAN No.: AAAAG0915F

Bank Details:

Name of the Account

: Principal, GRIET - Grants

Name of the Bank

: Punjab National Bank

Account No.

: 18822041001025

Branch

: Bachupally

IFSC Code

: PUNB0188210

LYAR _

Principal investigator (Dr B Sankara Babu)

Co_ Principal Investigator

(Dr K Madhavi)

J. Porveen

Authorized Signature PRINCIPAL

GOKARAJU RANGARAJU

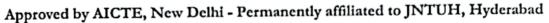
Bachupally, Kukatpally, Hyderabad - 500 090, Telangarity Ind Engineering and Technology Cell: 7207344440 / 7207714441 e-mail: info@griet.ac.in, Church griet action Hyderabad - 500 091

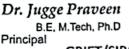
e-mail: principal@griet.ac.in



Institute of Engineering and Technology







GRIET/SIRO/2021-22

07.02.2022

Certificate for GST Exemption under Government of India, Ministry of Finance

Notification No.: 45/2017 - Central Tax (Rate) dt. 14th November 2017 & Notification No.: 47/2017 - Integrated Tax (Rate) dt. 14th November 2017

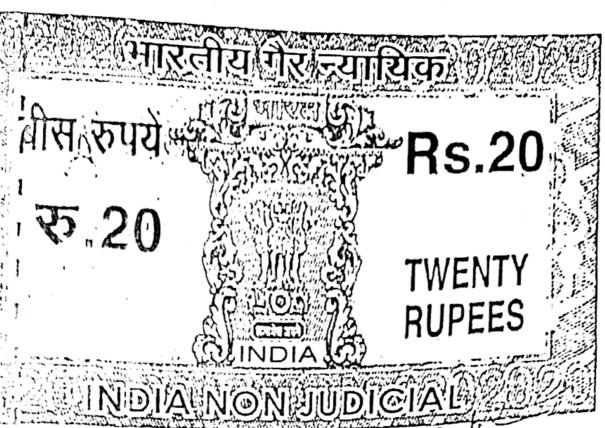
1	Name of Institute	Gokaraju Rangaraju Institute of Engineering & Technology
2	Name of the Department	Department of CSE
3	Registration No.	11/654/2015-TU-V
4	PAN	AAAAG0915F
5	Brief Description of item	A Predictive Model for Energy Management System using IOT and Big Data Processing
6	Value of Goods (Basic Price) in Indian Rupees	Rs. 6,80,000/-
7	Purpose for which item is required	Research
8	Name of Supplier Manufacturer	Ample Auto Tech Pvt. Ltd. 61, Sector-3, IMT, Manesar, Gurgaon 122050 Haryana
9	Invoice No. & Date	GRIET/R&D/Consultancy/2021-22/06/2dt. 07.02.2022

Certified that Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad is affiliated to Jawaharlal Nehru Technological University Hyderabad, Hyderabad and registered under DSIR – SIRO with Registration No. 11/654/2015-TU-V valid till 31.03.2023

This is also certified that the goods in respect of which concession from GST is claimed under this notification are required for Research Purpose Only.

Principal- GRIET

PRINCIPAL
GOKARAJU RANGARAJU
Institute of Engineering and Technology
Bechupally, Kukatually, Hyderabad - 500 09



G. GANGARAJO Rh Uyd. arabas

MEMORANDUM OF UNDERSTANDING (MOU) FOR RESEARCH PARTNERSHIP AND COLLABORATION

This memorandum of understanding is made and executed on 21.12.2019

BY AND BETWEEN

Gekliraju Rangaraju Institute of Engineering and Technology (GRIET), is an educational institute of higher tearning, a premier institute of repute established in the year 1997, having its carrys in Bachupally, Hyderabad - 500 090, Telangana (herein after referred to as "First Party") which expression shall unless the context requires it otherwise mean and include its Owners and permitted assigns.

AND Ample Auto Tech Pvt. Ltd., (herein after referred to as "Second Party") having its registered office at 61, Sector-3, IMT, Manesar, Gurgaon-122050, Haryana (GSTN No.- 06AAFCA1574R1Z9). which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns of ONE PART.

GRIET and Ample Auto Tech Pvt. Ltd. are herein after individually referred to as "Party" and collectively known as "Parties".

WHEREAS:

GRIAT is the vibrant institute of higher learning and research facilities with eminent professors and well-equipped labs.

Page 1 of 2

GOKARAJU RANGARAJU infilule of Engineering and Jechnology Bachupa ty, Kutalpaily, Hyderabad-500 Spi for Ample Alito Tech Per L'

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Date: 10/07/2021

No.: 21071001

To,

Dr. A Sai Hanuman (PI)

Professor, CSE Department,

Gokaraju Rangaraju Institute of Engineering & Technology,

Bachupally, Hyderabad 500090.

Telangana, INDIA.

3

Dr. B Phaneendra Babu (Co-PI)

Professor,

Department of Electrical and Electronics Engineering,

Gokaraju Rangaraju Institute of Engineering & Lichnology,

Bachupally, Kukatapally, Hyderabad 500 090

Telangana, INDIA

Kind Attn: Principal, GRIET

Sub: Work order for Detailed Engineering Consultance Services for the Work of the Following Project:

Fault Diagnosis of Three Phase Inverter using Artificial Intelligence and Machine Learning

Ref: Your Project Proposal dt: 15.03.2021

Dear Sir,

In line with the discussions that we had; we are pleased to confirm you our work order to carry out the Engineering Services for the works mentioned under subject.

You are requested to please treat this a lotter of Acceptance (LOA) with the entrusted work as per the details stated below:

Deliverables:

Product failure analysis. Literature study. Development of Al, and Mil algorithms

We hereby accept your financial proposal of Rs10, 15, 000 - Len Lakhs fifteen thousand Rupees Only). Kindly send proforma invoice and bank details for further process. Time period for the project is 1 year from LOA issue date. Terms & Conditions remain same as per Mol., Regards

Dr Bharath Babu Ambati

Director

Thane, Maharashtra



Institute of Engineering and Technology.



Approved by AICTE, New Delhi - Permanently affiliated to JNTUH, Hyderabad

Dr. Jugge Praveen
B.E., M.Tech, Ph.D
Principal

GRIET/R&D/Consultancy/2021-22

19 July 2021

Invoice

145, Rd Industria Maharas	Number 23, Wagle Estate, Wagle I Estate, Thane West, Thane, htra 400604	Invoice No: 05/3 Invoice Date: 19.07.2021 Ref: MoU dt: 06.07.2021			
S. No.	Research Project	Charges (Rs) Per Annum	Total Amount		
1	Fault Diagnosis of Three Phase Inverter using Artificial Intelligence and Machine Learning - Product failure analysis, Literature study, Development of AI and ML algorithms. For the year 2021-22	1 .	Rs. 10, 15, 000/-		
	Teta year Callery Superior Paris.	Net Amount	Rs. 10, 15, 000/-		

(Rupees Ten Lakhs fifteen thousand Rupees Only)

PAN No.: AAAAG0915F

Bank Details:

Name of the Account

: Principal, GRIET - Grants

Name of the Bank

: Punjab National Bank

Account No.

: 18822041001025

Branch

: Bachupally

IFSC Code

: PUNB0188210

Principal Investigator (Dr A Sai Hanuman)

レード Co-Principal Investigator

(Dr Phaneendra Babu Bobba)

Authorized Signature

Bachupally, Kukatpally, Hyderabad - 500 090, Telangana, India Cell: 7207344440 / 7207714441 e-mail: info@griet.ac.in, www.griet.ac.in e-mail: principal@griet.ac.in



InstaSine

MEMORANDUM OF UNDERSTANDING (MOU) FOR RESEARCH PARTNERSHIP AND COLLABORATION

This memorandum of understanding is made and executed on 6th July 2021

BY AND BETWEEN

Gokaraju Rangaraju Institute of Engineering and Technology (GRIET) is an educational institute of higher learning, a premier institute of repute established in the year 1997, having its campus in Bachupally, Hyderabad - 500 090, Telangana (herein after referred to as "First Party") which expression shall unless the context requires it otherwise mean and include its Owners and permitted assigns.

ANT

InstaSine Power Technologies Pvt. Ltd., (herein after referred to as "Second Party") having its registered office at 145. Rd Number 23. Wagle Estate, Wagle Industrial Estate, Thane West, Thane, Maharashtra 400604), which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns of ONE PART. GRIET and InstaSine Power Technologies Pvt. Ltd. are herein after individually referred to as "Party" and collectively known as "Parties".

WHEREAS:

GRIET is the vibrant institute of higher learning and research facilities with eminent professors and well-equipped labs.

InstaSine Power Technologies Pvt. Ltd. was founded in 2016 by a group of HTD (Indian Institute of Technology, Delhi) alumni, with over 30 years of combined first-hand R&D experience, especially, in the fields of digital control systems and power electronies with the focus on power quality enhancement and renewable energy systems. InstaSine stands for Instantaneous Sine wave, be it a current or yoltage. The first two products introduced by InstaSine, namely i - Sine and v-Sine effectively corrects the wave shapes of current and voltage to be pure sinusoidal at the customer end. Our products assure the current and/or voltage quality as per IEEE standards. In-house research and development (R&D) is the backbone of InstaSine, while, "Innovation" drives the company's vision. R&D activities span form power electronics converter topologies, magnetics, artificial neural network, adaptive control to system optimization. Team has contributed more than 90 international research articles that includes more than 40 in world recognized various IEEE Transactions, such as, IEEE Trans on Power Electronics, IEEE Trans on Industrial Informatics, IEEE Trans on Power Delivery, IEEE Trans on Power System, IEEE Trans on Energy Conversion, IEEE Trans on Sustainable Energy, and IEEE Trans on Smart Grid.



InstaSine

InstaSine proudly introduced first of its product line-up. i - Sine Active Harmonic Filters (AHF) in the year 2016. The i - Sine AHFs are equipped with newest generation IGBTs that are intelligently controlled using Artificial Neural Network (ANN) based architecture. Our AHF is most advanced and effective power quality improvement solution to mitigate harmonic, unbalance, and reactive currents.

Therefore, GRIET and InstaSine Power Technologies Pvt. Ltd. recognized that mutual collaboration, given each other's strengths in the field of research and facilities thereof, will mutually benefits in engaging themselves in research cooperation between the Parties.

Purpose and Objective of this MOU:

-GRIET has approached InstaSine Power Technologies Pvt. Ltd. with a research project proposal titled "Fault Diagnosis of Three Phase Inverter using Artificial Intelligence and Machine Learning". Dr. A Sai Hanuman, Professor of Computer Science and Engineering, GRIET, Hyderabad will act as Principal Investigator (PI) and Dr. B Phaneendra Bahu. Professor, Department of Electrical and Electronics Engineering, GRIET, Hyderabad will act as Co Principal Investigator (Co_PI) for this Project. InstaSine Power Technologies Pvt. Ltd. has given consent to this preposition and agreed to fund this project for Rs. Rs10, 15, 000/- (Ten Lakhs fifteen thousand Rupees Only) per annum.

Effective Date and Termination: This MOU shall be effective from the date of its approval by competent authorities at both ends. The duration of the MOU shall be for a period of 2 years from the effective date and will be extended up to 5 years based on mutual consent. During its tenancy, the MOU may be extended or terminated by a prior notice of not less than six months by either party. However, termination of the MOU will not in any manner affect the interests of the parties. Any clause or article of the MOU may be modified or amended by mutual agreement of Parties

For and on behalf of Gokaraju Rangaraju Institute of Engineering and Technology (GRIET)

Sign:

Name: Dr. J. Praveen

Title: Principal

Place: Hyderabad, Telangana

For and on behalf of

InstaSine Power Technologies Pvt. Ltd.

A.B. TOC

Sign :

Name: Dr Bharath Babu Ambati

Title: Managing Director Place: Thane, Maharashtra

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Mode of Operation : AUTHORISED SIGNATORY

Customer No. : 023591636

Account No. : 18822041001025

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Card and Mobile SB Account.

Submit

GOKARAJU RANGARAJU EDUCATIONAL SOCIETY

Account Open Date: 02-12-2013

GOKARAJU RANGARAJU INSTITUE OFF ENGINEERING

AND TECH, BACHUPALLY, KUKATPALLY

HYDERABAD

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to change from time to time. (T&C applicable)

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कृपया पास बुक न मोड़े PLEASE DO NOT FOLD THE PASS BOOK 24 घंटे नि:शुल्क कॉल सेंटर सेवा उपलब्ध है । 1800 180 2222/1800 103 2222 Toll free 24 hours call centre 1800 180 2222/1800 103 2222

AMPLE AUTO TECH PRIVATE LIMITED

Manufacturer & Exporter of Steering & Suspension Parts



No.: ATEK/CS-03/01-2021

Dt: 01.07.2021

To,

Dr. G. Ramesh (PI)

Associate Professor, CSE Department, Gokaraju Rangaraju Institute of Engineering & Technology, Bachupally, Hyderabad 500090. Telangana, INDIA.

e-

Dr. J. Praveen (Co-PI)

Professor,

Department of Electrical and Electronics Engineering, Gokaraju Rangaraju Institute of Engineering & Technology, Bachupally, Kukatapally, Hyderabad 500 090. Telangana, INDIA.

Kind Attn: Principal, GRIET

Sub: Work order for Detailed Engineering Consultancy Services for the Work of the Following Project:

Artificial Intelligence (AI) Framework for Autonomous and Electric Vehicles

Ref: Your Project Proposal dt: 15.03.2021

Dear Sir.

In line with the discussions that we had, we are pleased to confirm you our work order to carry out the Engineering Services for the works mentioned under subject. You are requested to please treat this a Letter of Acceptance (LOA) with the entrusted work as per the details stated below:

Deliverables:

Literature review, field study, Provide progress report to client

We hereby accept your financial proposal of Rs10, 62, 380/- (Ten Lakhs Sixty Two

Thousand Three Hundred and Eighty Rupées Only). Kindly send proforma invoice and bank
details for further process. Time period for the project is 1 year from LOA issue date.

Terms & Conditions remain same as per MoU.

Regards

Arving Choudhary Managing Director Gurgaon, Haryana

Corporate Office & Unit -I: Plot No. 61, Sector- 3, IMT Manesar, Gurgaon, Haryana, India-122050

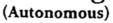
Telephone No.: +91-124-2290055, +91-124-4265757

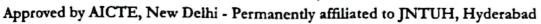
E-mail: marketing@atek.in Website: www.atekworld.com CIN- U34300DL2005PTC134947 GSTIN - 06AAFCA1574R129





Institute of Engineering and Technology







Invoice

GRIET/R&D/Consultancy/2021-22

09.07.2021

Ample Auto Tech Pvt. Ltd. 61, Sector-3, IMT, Manesar, Gurgaon-122050 Haryana GSTN No 06AAFCA1574R1Z9		Invoice No: 05/1 Invoice Date: 09.07.2021 Ref: MoU dt: 04.06.2021		
S.No.	Research Project	Charges (Rs) Per Annum	Total Amount	
1	Artificial Intelligence (AI) Framework for Autonomous and Electric Vehicles consultancy charges for Literature review, Field study Procuring computers. For the year 2021-22	Rs. 10, 62, 380/-	Rs. 10, 62, 380/-	
		Net Amount	Rs. 10, 62, 380/-	

(Rupees Ten Lakhs Sixty Two Thousand Three Hundred and Eighty Rupees Only)

PAN No.: AAAAG0915F

Bank Details:

Name of the Account

Name of the Bank

: Punjab National Bank

: Principal, GRIET - Grants

Account No.

: 18822041001025

Branch

: Bachupally

IFSC Code

: PUNB0188210

Principal Investigator

Co_ Principal Investigator

Authorized Signature

OLARADU SANGARAJU In white of a grangering and Turbhology Dacturally, Kukathank Higherenes . 500 000



Institute of Engineering and Technology



(Autonomous)

Approved by AICTE, New Delhi - Permanently affiliated to JNTUH, Hyderabad

GRIET/SIRO/2021-22

09.07.2021

Certificate for GST Exemption under Government of India, Ministry of Finance

Notification No.: 45/2017 - Central Tax (Rate) dt. 14th November 2017 & Notification No.: 47/2017 - Integrated Tax (Rate) dt. 14th November 2017

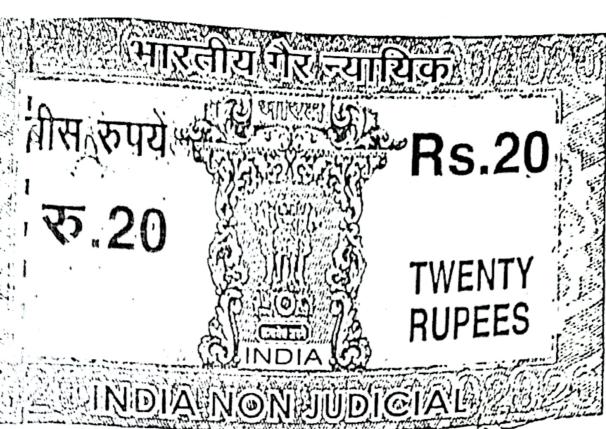
1	Name of Institute	Gokaraju Rangaraju Institute of Engineering & Technology
2	Name of the Department	Department of CSE
3	Registration No.	11/654/2015-TU-V
4	PAN	AAAAG0915F
5	Brief Description of item	Artificial Intelligence(AI) Framework for Autonomous and Electric Vehicles
6	Value of Goods (Basic Price) in Indian Rupees	Rs. 10,62,380/-
7	Purpose for which item is required	Research
8	Name of Supplier Manufacturer	Ample Auto Tech Pvt. Ltd. 61, Sector-3, IMT, Manesar, Gurgaon 122050 Haryana
9	Invoice No. & Date	GRIET/R&D/Consultancy/2021- 22/05/1dt.09.07.2021

Certified that Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad is affiliated to Jawaharlal Nehru Technological University Hyderabad, Hyderabad and registered under DSIR - SIRO with Registration No. 11/654/2015-TU-V valid till 31.03.2023

This is also certified that the goods in respect of which concession from GST is claimed under this notification are required for Research Purpose Only.

> J. Farress Principal- GRIET

PRINCIPAL GOKARAJU RANGARAJU Bachupally, Kutsipally, Hyearsbag - 500 ngi



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FOR RESEARCH PARTNERSHIP AND COLLABORATION

This memorandum of understanding is made and executed on 21.12.2019

BY AND BETWEEN

Gok fraju Rungaraju Institute of Engineering and Technology (GRIET), is an educational institute of higher learning, a premier institute of repute established in the year 1997, having its carried in Bachupally, Hyderabad - 500 090, Telangana (herein after referred to as "First Party") which expression shall unless the context requires it otherwise mean and include its Owners and permitted assigns.

Ample Auto Tech Pvt. Ltd., (herein after referred to as "Second Party") having its registered office at 61, Sector-3, IMT, Manesar, Gurgaon-122050, Haryana (GSTN No.- 06AAFCA1574R1Z9), whicf expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns of ONE PART.

GRIFT and Ample Auto Tech Pvt. Ltd. are herein after individually referred to as "Party" and collectively known as "Parties".

WHEREAS:

GRIAT is the vibrant institute of higher learning and research facilities with eminent professors and well-equipped labs.

Page 1 of 2

GOKARAJU RANGARAJU

Inditate of Engineering and Technology

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For Ample Aprio Tech Per L's

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75,70,395.52 Cr				

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Measure India Corporation Pvt Ltd

(TESTING MACHINES DIVISION)

MIC House, No:12-2-41/4, Plot No: 41, Sri Nagar, Rampally, Keesara (M), Hyderabad – 501301, Telangana, India. Ph: +91 9701451451, 040 23014345 Mail: info@measure-india.com Web: www.measure-india.com

Dt: 01 March 2022

PO No.: MICPLPO212266

To,

Principal Investigator

Dr. B. Tanya

Associate Professor & Head, Department of Mechanical Engineering,

Gokaraju Rangaraju Institute of Engineering and Technology,

Bachupally, Kukatapally, Hyderabad,

Telangana, INDIA, PIN Code: 500 090.

Phone No. +91 9642666556

Email: tanyab@griet.ac.in

Co-Principal Investigator

Dr. G. Ramesh

Associate Professor,
Department of Computer Science and Engineering,
GokarajuRangaraju Institute of Engineering and Technology,
Bachupally, Kukatapally, Hyderabad.
Telangana, INDIA, PIN Code: 500 090.

Phone No: +91 9440862112 Email: gramesh@griet.ac.in

Kind Attn: Principal, GRIET

Sub: Work order for Detailed Research Project for the Following Project Entitled: Prediction of Mechanical Properties for Fibre Composites using Machine Learning Models

Ref: Your Project Proposal dt: 28-02-2022

Dear Sir,

In line with the discussions that we had; we are pleased to confirm you our work order to carry out the research project as mentioned in subject line.

You are requested treat this letter as Letter of Acceptance (LOA) with the entrusted work as per the details stated below:



Deliverables:

S.No	Deliverables	Duration in
1		Months
1	Literature Review	1
2	Prediction of Mechanical Properties for Fibre Composites	2
3	Defining Machine Learning models	3
4	Implementation of final prototype and Evaluation.	3
5	Report Generation	3

We hereby accept your financial proposal of Rs. 5, 60, 000 (Five Lakhs Sixty Thousand Rupees Only). Kindly send proforma invoice and bank details for further process. Time period for the project is 1 year from LOA issue date. Terms & Conditions remain same as per MoU.

Regards,

K. Rajendra Prasad

Managing Director

Measure India Corporation Private Limited



Institute of Engineering and Technology



Approved by AICTE, New Delhi - Permanently affiliated to JNTUH, Hyderabad

Dr. Jugge Praveen B.E. M.Tech, Ph.D

Invoice

GRIET/R&D/Consultancy/2021-22

29/03/2022

Measure India Corporation Private Limited MIC House, H.No: 12-2-41/4, Plot No: 41, Sree Nagar, Rampally, Keesara (M), Medchal-Malkajgiri District, Hyderabad - 501301, Telangana, India GST No: 36AAJCN5738K12Y		Invoice No: 02/04 Invoice Date: 29/03/2022 Ref: MoU with MICPL Dated: 25/02/2		
S.No.	Research Project .	Charges (Rs) Per Annum	Total Amount	
1	Prediction of Mechanical Properties for Fibre Composites using Machine Learning Models	Rs. 5,60,000/-	Rs. 5,60,000	
		Net Amount	Rs. 5,60,000	

(Rupees Five Lakhs Sixty Thousand Rupees Only)

PAN No.: AAAAG0915F

Bank Details:

Name of the Account

: Principal, GRIET - Grants

Name of the Bank

: Punjab National Bank

Account No.

: 18822041001025

Branch

: Bachupally

IFSC Code

: PUNB0188210

Principal Investigator

(Dr. B. Tanya)

Co_ Principal Investigator

(Dr. G. Ramesh)



Authorized Signature

Bachupally, Kukatpally, Hyderabad - 500 090, Telangana, India Cell: 7207344440 / 7207714441 e-mail: info@griet.ac.in, www.griet.ac.in e-mail: principal@griet.ac.in

GRIET GRIET NIZAMPET ROAD, BACHUPALLY, HYDERABAD-500 072.

CONSULTANCY INCOME RECEIVABLE Ledger Account

1-Apr-2022 to 31-Mar-2024

Date		Particulars	Vch Type			Page 1
1-4-2022	То	Opening Balance	ven Type	Vch No.	Debit	Credit
		PRINCIPAL GRIET (18822413000115) BEING AMOUNT RECEIVED FROM MEASURE INDIA CORPORATION(RE UBINR22022041301852027)	F NO.		18,00,000.00	5,00,000.00
		PRINCIPAL GRIET (18822413000115) BEING AMOUNT RECEIVED FROM MEASURE INDIA CORPORATION				4,72,000.00
	Ву	PRINCIPAL GRIET (18822413000115) BEING AMOUNT RECEIVED FROM MEASURE INDIA CORPORATION(REI UBINR2202210101301007285)	F NO.			2,70,000.00
21-11-2022	Ву	PRINCIPAL GRIET (18822413000115) BEING AMOUNT RECEIVED FROM MEASURE INDIA CORPORATION(REI UBINR22022112101281397				5,58,000.00
31-3-2023	То	CONCULTANCE DISCOUR	Journal CH		13,50,000.00	
7	į	CONSULTANCY INCOME BEING THE CONSULTANCY INCOME RECEIVABLE FROM MEASURE INDIA LTD TOWARDS CONSULTANCY INCO	Journal PVT ME		31,50,000.00	
В	y	Closing Balance		***************************************	63,00,000.00	18,00,000.00 45,00,000.00
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