

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

(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: 02.03.2021.

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

To
Purchase Manager,
R Radiant Engineering Service,
#48-14-109, 2nd 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 EEE



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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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, 2nd 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,

Principal

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

Copy to:

HOD of EEE



PURCHASE ORDER

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

Date: 1ST-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 |
| Total | | | 2,40,000 |

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





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: 31.03.2022.

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

To
Purchase Manager,
R Radiant Engineering Service,
#48-14-109, 2nd 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



Date: 05.02.2022,
Visakhapatnam.

To
The Principal,
Avanthi Institute of Engineering and Technology,
Cherukupally,
Vizianagaram-531162

Subject: Request for the enhancement and modifications of the Equipment and cable design of project.

Dear Sir,

I hope this letter finds you well. I am writing to request your assistance with the enhancement and modifications of Cable designs that were developed by the faculty expert team of your college for Electrical drawing project.

We recently came across equipment and cable design- modeling, simulation and drafting project that was developed by your esteemed faculty expert team at Avanthi Institute of Engineering and Technology. However, upon careful evaluation, we believe that there is scope for enhancement and modification to further optimize the outcome of this project.

With our expertise and experience in the field, we would like to propose collaborating with your college to carry out the necessary improvements. Our aim is to ensure that the project achieves its full potential, benefiting not only the college and its stakeholders but also the community at large.

Thank you for your attention to this matter, and we look forward to your favorable response. Together, we can continue to enhance the quality of engineering education and contribute to the advancement of our industry.

Looking forward & thank you.


Mr. B. Santhosh



Purchase Manager, R RADIANT ENGINEERING SERVICES



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

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

Date: 08.04.2022,

Cherukupally.

From,

The Principal,
Avanthi Institute of Engineering and Technology,
Cherukupally
Vizianagaram-531162

To

Purchase Manger,
R Radiant Engineering Services,
48-14-109, 2nd Floor, beside the reliance jewelry,
Near Rama Talkies road,
Visakhapatnam – 530013.

Subject: RE: Request for the enhancement and modifications of the Equipment and Cable design of project

Dear Sir,

I hope this message finds you in good health and high spirits. Thank you for appreciating the quality of work exhibited by our esteemed faculty expert team at Avanthi Institute of Engineering and Technology.

We are honored by your proposal to collaborate on enhancing and modifying the electrical drawings project. Your expertise and experience in the field would undoubtedly contribute towards the advancement of engineering education at our institution.

However, due to certain constraints in our academic calendar, we require additional time to facilitate the coordination needed between your firm and our faculty. We humbly request a time extension to assess our ongoing commitments and develop a comprehensive plan that will ensure a successful collaboration. Furthermore, since your proposal entails a substantial commitment of resources from our institution.

Looking forward for your positive response.

Thanking You




Principal

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



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Project Report: Equipment and Cable Design - Modelling, Simulation, and Drafting for EEE Drawings

1. INTRODUCTION

The project aims to develop a comprehensive system for equipment and cable design in the field of Electrical and Electronic Engineering (EEE). The project focuses on utilizing modern technologies for modelling, simulation, and drafting to optimize the design process, enhance accuracy, and improve efficiency. The primary objectives include the creation of detailed 3D models, simulation of electrical systems, and the generation of high-quality engineering drawings for various EEE applications.

2. PROJECT SCOPE

2.1 Equipment Design

The project will involve the development of 3D models for electrical equipment, such as transformers, generators, motors, and switchgear. The models will be created using advanced Computer-Aided Design (CAD) software, allowing for detailed visualization and analysis of the equipment's design and components.

2.2 Cable Design

Efficient and reliable cable systems are crucial for electrical power transmission and distribution. The project will focus on designing various types of cables, including power cables, control cables, and communication cables, considering factors such as voltage ratings, current carrying capacity, insulation, and shielding.

2.3 Simulation

The equipment and cable designs will be subjected to simulation using specialized software. Electrical system simulation will analyze the behavior of the designed components under different operating conditions, ensuring the systems meet safety, efficiency, and performance requirements.

2.4 Drafting

Engineering drawings will be generated based on the 3D models and simulation results. These drawings will include detailed layouts, elevations, sections, and wiring diagrams, serving as essential blueprints for installation and maintenance purposes.

2.5 Standards and Compliance

All designs and drawings will adhere to relevant national and international standards, ensuring that the electrical systems comply with safety and performance regulations.



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

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

3. METHODOLOGY

3.1 Requirements Gathering

The project team will conduct a thorough analysis of the requirements provided by clients, electrical engineers, and stakeholders. The design criteria and specifications will be gathered to ensure the developed models and drawings meet the specific needs of each project.

3.2 3D Modelling

Using industry-standard CAD software, the project team will create detailed 3D models of electrical equipment and cable systems. The models will be designed with a focus on accuracy, functionality, and ease of integration with the simulation tools.

3.3 Simulation and Analysis

Specialized simulation software will be utilized to test and analyze the behavior of the equipment and cable systems under different scenarios. The simulation results will help optimize the designs and identify potential issues before physical implementation.

3.4 Drafting and Documentation

Based on the 3D models and simulation outputs, the team will generate engineering drawings using CAD tools. These drawings will provide precise information on the layout, connections, and specifications of the electrical systems.

3.5 Validation and Review

The developed models, simulation results, and drawings will undergo thorough validation and review by experienced electrical engineers and experts to ensure accuracy and compliance with standards.

3.6 Integration with Project Management

The project management plan will be synchronized with the design and simulation process to ensure timely completion of deliverables and efficient resource allocation.

4. RESOURCE ALLOCATION

4.1 Human Resources

The project team will consist of the following members:

- Project Manager: Responsible for project coordination and overall management.
- Electrical Engineers: To provide technical expertise for equipment and cable design.



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

- CAD Designers: To develop 3D models and engineering drawings using CAD software.
- Simulation Experts: To conduct electrical system simulations and analysis.
- Quality Control Specialists: To ensure the accuracy and compliance of the deliverables.

4.2 Technology and Tools

The project will utilize the latest versions of CAD software, electrical system simulation tools, and other relevant software to facilitate the design and drafting process.

4.3 Budget

A budget will be estimated to cover the costs of human resources, software licenses, hardware, and other miscellaneous expenses.

5. RISK MANAGEMENT

A risk assessment will be conducted to identify potential challenges, such as data inaccuracies, software compatibility issues, and time constraints. Mitigation plans will be developed to address these risks effectively.

6. CONCLUSION

The "Equipment and Cable Design - Modelling, Simulation, and Drafting for EEE Drawings" project is essential for enhancing the efficiency and accuracy of electrical system design and documentation. The use of advanced 3D Modelling, simulation, and drafting techniques will ensure that the developed electrical systems meet the highest standards of safety, performance, and compliance with regulations. The successful completion of this project will significantly benefit the EEE industry by providing reliable and optimized electrical system designs that can be implemented with confidence.




PRINCIPAL
AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (V), Near Tagarapuvalasa Bridge
Bhogapuram (M), Vizianagaram (D)-531162



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

UTILITY CERTIFICATE

We, the undersigned Principal Investigator and Co-investigators, hereby certify that the estimated cost breakdown mentioned below has been approved for the Designer/3D Modeling/Analysis project at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY in the Electrical and Electronics Engineering Department.

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

We give our consent to allocate funds for this project from the grant provided by R Radiant Engineering Services, confirming the optimal distribution of available financial resources. We assure you of our adherence to guidelines, terms, and conditions set by your agency.

Kindly sanction the grant as per the above-mentioned details to support us in carrying out this project successfully.

Thanking you,

Yours sincerely,

Dr. S. N. V. Ganesh
Principal Investigator
Electrical and Electronics Engineering Department

Mr. A. Arjun Rao
Co-investigator
Electrical and Electronics Engineering Department

Mr. G. Prasanth
Co-investigator
Electrical and Electronics Engineering Department

INVOICE

DATE:
25-04-2023

INVOICE #
AIET/R&D/001

TO: R Radiant Engineering
Services
#48-14-109, 2nd Floor,
Beside the Reliance jewelry,
Near Rama Talkies Road,
Visakhapatnam – 530013.

| QTY | DESCRIPTION | UNIT PRICE | LINE TOTAL |
|-----|---|------------------|-----------------|
| 1 | Equipment and Cable Design - Modelling, Simulation and Drafting | 2,40,000 | 2,40,000 |
| | | | |
| | | | |
| | | SUBTOTAL | 2,40,000 |
| | | SALES TAX | 0.00 |
| | | TOTAL | 2,40,000 |

R & D HEAD SIGNATURE

R & D CO-ORDINATOR

AVANTHI INSTITUTE OF ENGG. & TECH.

Cherukupally (V), Near Tagarapavalasa Bridge
Bhogapuram (M), Vizianagaram (D)-531162



AVANTHI INST. OF ENGG & TECH.

Accounts Officer

AUTHORIZED SIGNATORY

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

CHERUKUPALLY (VILLAGE) | NEAR TAGARAPUVALASA BRIDGE | BHOGAPURAM (MANDAL) | VIZIANAGARAM-531162



Visakhapatnam - Ramnagar Branch
 Vijayalakshmi Nilayam, Opp Lazarus Hospital, Ram Nagar, Visakhapatnam, Andhra Pradesh-530002
 RTGS / NEFT / IFS Code : ICIC0000365

VALID FOR THREE MONTHS ONLY

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | 0 | 4 | 2 | 0 | 2 | 3 |
| D | D | M | M | Y | Y | Y |

OR ORDER

Pay

Avantri Inst of Engg & Technology.

Rupees

Two Lakhs Forty thousand only

| | |
|---|-----------|
| ₹ | 240,000/- |
|---|-----------|

A/c No. 036505006856

15/12/22

CABUS CBS
 BUSINESS BANKING : NEW CURRENT ACCOUNT
 Payable at par at all branches of ICICI Bank Limited in India

FOR R RADIANT ENGINEERING SERVICES

PROPRIETOR

Please sign above



⑈000564⑈ 530229003⑈ 006856⑈ 29

SESHAASAI (H) / CTS - 2010



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Joint Holder :- -

CHERUKUPALLI VILLAGE CHITTIVALASA SO

BHOGAPURAM MANDAL

MAIN ROAD

VIZIANAGARAM

ANDHRA PRADESH-INDIA

531162

Customer ID :879983002

IFSC Code :UTIB0000554

MICR Code :530211005

Nominee Registered : N

Registered Mobile No :XXXXXXX5659

Registered Email ID:FXX@AVANTHI.EDU.IN

PAN :AAATA3530B

Scheme :PLATINUM TRUST ACCOUNT

Statement of Axis Account No :918010018259213 for the period (From : 18-07-2023 To : 18-07-2023)

| Tran Date | Chq No | Particulars | Debit | Credit | Balance | Init. Br |
|------------|--------|--|-------------------|------------------|-------------------|----------|
| | | OPENING BALANCE | | | 4167295.67 | |
| 18-07-2023 | | By Clg 000564 229 Vizag | | 240000.00 | 4407295.67 | 2568 |
| 18-07-2023 | | IFT/0117072319293/1 | 173142.00 | | 4234153.67 | 554 |
| 18-07-2023 | | NEFT/0117072310966/2 | 700000.00 | | 3534153.67 | 554 |
| 18-07-2023 | | NEFT/0117072311079/1 | 300960.00 | | 3233193.67 | 554 |
| 18-07-2023 | | AVANTHI INST OF ENG & TECH - 01 17.07.23 | | 410125.00 | 3643318.67 | 274 |
| | | TRANSACTION TOTAL | 1174102.00 | 650125.00 | | |
| | | CLOSING BALANCE | | | 3643318.67 | |

Unless the constituent notifies the bank immediately of any discrepancy found by him/her in this statement of Account, it will be taken that he/she has found the account correct.

The closing balance as shown/displayed includes not only the credit balance and / or overdraft limit, but also funds which are under clearing. It excludes the amount marked as lien, if any. Hence the closing balance displayed may not be the effective available balance. For any further clarifications, please contact the Branch.

We would like to reiterate that, as a policy, Axis Bank does not ask you to part with/disclose/revalidate of your iConnect passord,login id and debit card number through emails OR phone call Further,we would like to reiterate that Axis Bank shall not be liable for any losses arising from you sharing/disclosing of your login id, password and debit card number to anyone. Please co-operate by forwarding all such suspicious/spam emails, if received by you, to customer.service@axisbank.com

With effect from 1st August 2016, the replacement charges for Debit card and ATM card applicable on Current accounts have been revised. To know more about the applicable charges,please visit www.axisbank.com

Deposit Insurance and Credit Guarantee Corporation (DICGC) insurance cover is applicable in all Banks' deposits, such as savings, current, fixed, recurring etc* up to maximum amount of Rs 5 Lakh including principal & interest both* (* or exceptions and details please refer www.dicgc.org.in)

In compliance with regulatory guidelines, the non-CTS cheque books attached to the accounts would be destroyed in banks core banking System. Thus, Non CTS cheques will not be valid for CASH, Clearing and Transfer transactions

REGISTERED OFFICE - AXIS BANK LTD,TRISHUL,Opp. Samartheswar Temple, Near Law Garden, Ellisbridge, Ahmedabad . 380006.This is a system generated output and requires no signature.

BRANCH ADDRESS - AXIS BANK LTD, RAMNAGAR, VISAKHAPATNAM [AP], LIONS CLUB BUILDING, 10-54-7,WALTAIR MAIN, , 530002, VISAKHAPATNAM, ANDHRA PRADESH, INDIA, TEL:0891-2712806/2702740 FAX:2702251

Legends :

ICONN - Transaction trough Internet Banking

VMT-ICON - Visa Money Transfer through Internet Banking

AUTOSWEEP - Transfer to linked fixed deposit


REV SWEEP - Interest on Linked fixed Deposit

SWEEP TRF - Transfer from Linked Fixed Deposit / Account

VMT - Visa Money Transfer through ATM

CWDR - Cash Withdrawal through ATM

AVANTHI INST. OF ENGG & TECH.,


Accounts Officer