

BENCH MARK ENGINEERING SOLUTIONS

level of quality...

INDUSTRIAL CONSULTANCY PROPOSAL

Date: 03.03.2022.

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 Mrs. J. Prema Latha, purchase manager at Bench Mark Engineering Solutions which is located at Visakhapatnam in Andhra Pradesh, India

Offering the ideal platform for creative thinkers to establish their products, we guarantee incredible opportunities for inventive concepts to grow. With the best infrastructure, technology, and system support in its class, the innovators have nothing to be worried about. In particular, we offer cutting-edge facilities for conceptualizing your idea.

In addition to offering technical and infrastructure support, we also offer consultancy, product support, and help with product development. For aspiring entrepreneurs, our fund also acts as a catalyst to encourage the technological advancement. Therefore, if you have an idea, which you think is innovative then we are the right place where you can implement it.

We are looking for a team of qualified faculty members at your college in Mechanical Engineering who can work on designing, Modeling, Simulation, Drafting, and 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.


Mrs. J. Prema Latha



Purchase Manager, BENCHMARK ENGINEERING SOLUTIONS



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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NAAC "B++" Accredited Institute

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

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

Cherukupally,

Date: 07.03.2022.

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

To
Purchase Manager,
Bench Mark Engineering Solution,
#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 for "Preparation of Mechanical Drawings" has been confirmed. As we discussed in our Telephonic conversations, we agreed to maintain the confidentiality of the Project. 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,



Copy to:

HOD of Mech


Principal

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



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Cherukupally,

Date: 07.03.2022.

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

To
Purchase Manager,
Bench Mark Engineering Solution,
#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. B. Avinash Ben
2. Mr. L. Bhavani Shankar
3. Mr. K. Jaswanth

It's for the necessary work.

Thanking You,


Principal



Copy to:

HOD of Mech

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



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

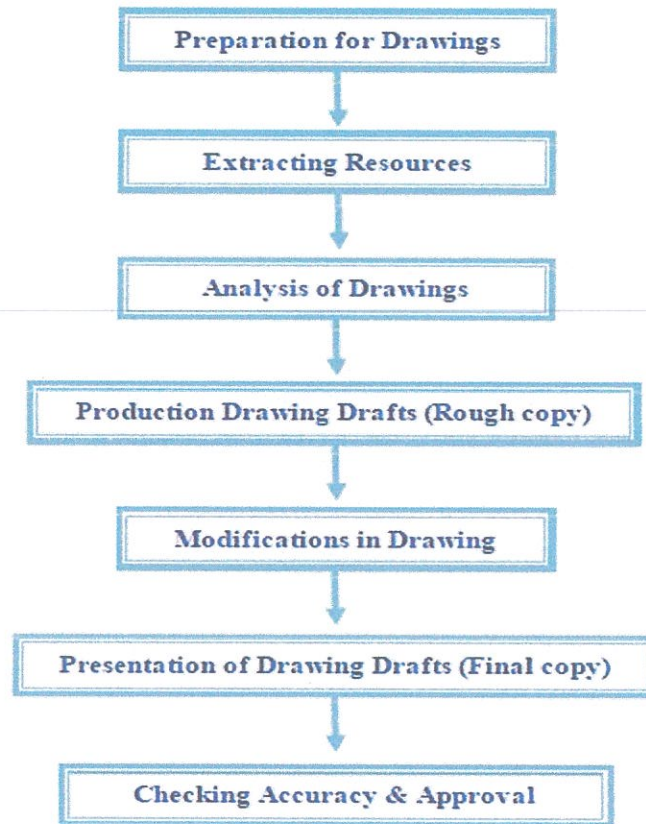
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FLOWCHART OF PROJECT PROCEDURE:



- Each of 300 drawings should go through the above structure.
- These are the different phases for which we can retrieve the process from any other phase to the other phases.

Procedure to be followed:

- A given general data converted to 2 D drawing using AutoCAD.
- 2D drawing will be further developed to 3D using modeling tool CATIA V5.
- These 3D models processed to be a manufacturing-ready models, and feasibilities will be scrutinized by using ANSYS for the extraction of 2D drawings from these 3D models.





BENCH MARK
Engineering Solutions



BENCH MARK ENGINEERING SOLUTIONS

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WORK ORDER

WO NO: WO/BMES/2022-23/C02

Date: 1st Apr 2022
Visakhapatnam

To,
THE PRINCIPAL
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
Cherukupally,
Bhogapuram Mandal,
Vizianagaram

Sub: Preparation of Mechanical drawings.

Further to your offer for Preparing of Mechanical drawings as per the our Telephone Discussion quotation, we are pleased to place the work order as below.

S.No	Description	Quantity in No. (drawings)	Unit Cost Rs.	Total Cost in Rs.
1.	Preparation of Mechanical drawings	300	1000	3,00,000.00

Rupees in words: Three Lakhs Only/-
Work Oder Valid : One Year (1st Apr 2022 to 31st Mar 2023)

TERMS & CONDITIONS :

- Preparation of detailed drawings based on the reference drawings provided by the customer.
- Taking physical dimensions for review and approval of our customer.
- Submission of drawings for review and approval of our customer.
- Incorporate any comments / feedback given by the customer in the drawings.
- Preparation of part drawings, assembly drawings, part list & Bill of materials for all the drawings.
- Preparation of as built drawings after completion of fabrication / Installation at site.

WORKING LOCATION :

- Your Premises.

For BENCHMARK ENGINEERING SOLUTIONS,


PURCHASE MANAGER





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Cherukupally,

Date: 11.02.2023

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

To
Purchase Manager,
Bench Mark Engineering Solution,
#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 10.02.2023.

It has been a great achievement by us to complete this prestigious project on time. It has been a great privilege, working in association with you and looking forward to work with you in future projects. All the designs were verified by your engineer Mr. Karthik and approved. We request you to please come along with your team for collecting, retrieving of important and confidential data.

I am looking forward to a quick response from your side.

Thanking you,



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



Project Report: Preparation of Mechanical Drawings

1. INTRODUCTION

The project aims to prepare 300 mechanical drawings for various projects across different industries, including manufacturing, engineering, automotive, aerospace, and machinery. The primary objective is to create accurate and detailed mechanical drawings that serve as blueprints for the construction, fabrication, and assembly of mechanical components and systems. The project will utilize Computer-Aided Design (CAD) software to ensure precision, efficiency, and consistency throughout the drawing preparation process.

2. PROJECT SCOPE

The scope of the project includes the preparation of 300 mechanical drawings, encompassing part drawings, assembly drawings, exploded views, and layout drawings for each project. The drawings will adhere to industry standards and specific project requirements. The project will focus on maintaining high-quality standards and delivering drawings that facilitate manufacturing and assembly processes.

3. PROJECT PLANNING AND SCHEDULING

Chapter 3 will detail the project planning and scheduling processes. It will outline the timeline for the completion of 300 mechanical drawings and establish milestones and deliverables for each stage of the project. A project management plan will be developed to efficiently allocate resources and ensure on-time project delivery.

4. DATA COLLECTION AND ANALYSIS

Chapter 4 will describe the data collection methods employed to gather design specifications, engineering calculations, material data, and client requirements for each project. The collected data will be analyzed to understand the unique requirements of each project, ensuring that the resulting mechanical drawings meet the client's expectations.

5. CAD MODELING AND DRAFTING

Chapter 5 will focus on the CAD modeling and drafting process. The project team will utilize advanced CAD software to create 3D models and 2D drawings for each mechanical component and assembly. The chapter will outline the drafting standards and conventions followed to maintain consistency and accuracy across all drawings.

6. QUALITY CONTROL AND REVIEW PROCESS

Chapter 6 will explain the quality control measures implemented throughout the project. It will describe the review process, where experienced mechanical engineers and experts will assess the



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drawings for accuracy, compliance with standards, and optimization for manufacturing and assembly processes. Any errors or discrepancies detected during the review will be rectified to ensure the drawings' quality.

7. RESOURCES AND BUDGET ALLOCATION

Chapter 7 will provide an overview of the resources allocated to the project, including human resources, technology, tools, and other project expenses. A detailed budget estimate will be presented, considering the costs associated with drafting, modeling, review, and documentation.

8. RISK MANAGEMENT

Chapter 8 will detail the risk assessment conducted to identify potential challenges that may arise during the project's lifecycle. Mitigation strategies will be developed to address these risks effectively, ensuring minimal disruption to the project progress.

9. DOCUMENTATION AND RECORD KEEPING

Chapter 9 will outline the documentation practices employed throughout the project. It will highlight the importance of maintaining accurate records of design iterations, reviews, approvals, and final drawings. Proper documentation will facilitate traceability and aid future reference.

10. CONCLUSION

Chapter 10 will summarize the entire project, emphasizing its significance in providing accurate and detailed mechanical drawings for diverse industries. The conclusion will highlight the successful completion of the project and the value of the prepared drawings as vital resources for manufacturers, engineers, and designers. Any key learnings and recommendations for future projects will also be presented in this chapter.

The "Preparation of Mechanical Drawings for 300 Projects" project is of paramount importance for various industries, ensuring precision, efficiency, and compliance in mechanical documentation. The successful completion of this project will require diligent efforts from the project team, adherence to the planned schedule, and a commitment to delivering high-quality mechanical drawings that meet the specific needs of each project.

Principal Investigator



Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TECH.

Cherukupally (V), Near Tagarapuvalasa Bridge
Jhogaapuram (M), Vizianagaram (D)-531162

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UTILITY CERTIFICATE

We, the Principal Investigator and Co-Investigators, hereby certify that the work order for the preparation of Mechanical drawings, as per the discussed quotation and telephone conversation, has been placed with the respective party.

The details of the work order are as follows:

S. No.	Description	Quantity in No. (drawings)	Unit Cost Rs.	Total Cost in Rs.
1.	Preparation of Mechanical drawings	300	1000	3,00,000

We confirm that the aforementioned rates are reasonable and necessary for carrying out the mentioned tasks efficiently. We assure you that these rates will be utilized in the best possible manner to achieve optimal results in this project. Furthermore, we ensure complete transparency and accountability in all our financial transactions related to this project.

Please let us know if any additional information is required from our end. We look forward to your continued support and cooperation.

Thanking You,

Yours sincerely,



Dr. B. Avinash Ben
Principal Investigator



Mr. L. Bhavani Shankar
Co-Investigator



Mr. K. Jaswanth
Co-Investigator

INVOICE

DATE:
18-05-2023

INVOICE #
AIET/R&D/001

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

QTY	DESCRIPTION	UNIT PRICE	LINE TOTAL
1	Preparation of Mechanical Drawings	3,00,000	3,00,000
		SUBTOTAL	3,00,000
		SALES TAX	0.00
		TOTAL	3,00,000



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



भारतीय स्टेट बैंक
State Bank Of India

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ANDHRA PRADESH 530003
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13-07-2023

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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 : 26-07-2023 To : 26-07-2023)

Tran Date	Chq No	Particulars	Debit	Credit	Balance	Init. Br
		OPENING BALANCE			3118607.67	
26-07-2023		By Clg 708616 002 Vizag		300000.00	3418607.67	2568
26-07-2023		NEFT/012607234724/1	99000.00		3319607.67	554
26-07-2023		IFT/0126072311267/1	6800.00		3312807.67	554
26-07-2023		AVANTHI INST OF ENG & TECH - 01 25.07.23		161750.00	3474557.67	274
		TRANSACTION TOTAL	105800.00	461750.00		
		CLOSING BALANCE			3474557.67	

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

PUR - POS purchase

TIP/ SCG - Surcharge on usage of debit card at pumps/railway ticket purchase or hotel tips

AVANTHI INST. OF ENGG & TECH.,


Accounts Officer