

**3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the year (INR in Lakhs)**

**3.1.2 Number of departments having Research projects funded by government and non government agencies during the year**

Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Name of the Funding Agency	Page No
Prof. Praveen S. Atigre	Mechanical Engineering	2025	Girish Enterprises	1-40

DTE Code : ENG015



HOLYWOOD OF THE SIXTIES  
**SANJEEVAN**

GROUP OF INSTITUTIONS, PANHALA

Sanjeevan Group of Institutions, Panhala, Dist. Kolhapur  
Phone : 914699300

AICTE ID : E-8019151  
AISHE Code : C-11165

Approved by AICTE, New Delhi  
Recognized by Govt. of Maharashtra, DTE, DCA  
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigarh  
Affiliated to Shivaji University, Kolhapur, MNCTE, Mumbai

## CONSULTANCY REPORT

Consultancy Title	Reducing the Rejection Percentage of Pallet Roller
Consultancy Number	CW /I/Type-I/ Mech / 2024-25 /1
Industry / Client Name	Girish Enterprises
Industry / Client Address	Plot No B65 Behind Menon Engineering Services, Shiroli M.I.D.C. Kolhapur
Duration of Consultancy:	Start Date : 22/02/2025 End Date : 28/02/2025
Consultancy Amount	Rs. 10,000/-
Consultancy Completed By [Name of Faculty]	Prof. Praveen S. Atigre [Principal Investigator]
Department	Mechanical Engineering Department
Institute Name	Sanjeevan Group of Institution Panhala





WISDOM WOODS WE WISE MEN  
**SANJEEVAN**

**GROUP OF INSTITUTIONS, PANHALA**

Sanjeevan Knowledge City, Somwar Peth, Jambhale, Panhala, Dist. Kolhapur  
Pin-416 201 (Maharashtra) Phone : 9146999500

○ Approved By AICTE, New Delhi ○ Recognized by Govt. of Maharashtra, DTE, DOA  
○ Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad  
○ Affiliated to Shivaji University, Kolhapur, MSUEE, Mumbai

DTE Code : **ENG115**

NAAC Accredited

AICTE ID : E-8019451  
AISHE Code : C-11165

## Consultancy Request From Industry [Mail From Company To Faculty]





pravin maharashtra &lt;pravin.atigare@seti.edu.in&gt;

## Requirement of consultancy services

Girish Enterprises &lt;girishenterprises9090@gmail.com&gt;

Mon, Feb 17, 2025 at  
3:19 PM

To: "pravin.atigare@seti.edu.in" &lt;pravin.atigare@seti.edu.in&gt;

Dear Sir,

We Girish Enterprises, seek to collaborate with Sanjeevan Group of Institutions for consultancy services in Rejection Analysis. Your institution's expertise aligns with our requirements, and we believe this partnership will be mutually beneficial. We are ready to pay the Consultancy Service / Testing Charges as per the College Norms.

Our Requirements:

Reducing the Rejection Percentage of Pallet Roller

Current rejection rate is 8.2%. Need to reduce this rejection rate below 3.0%

Deadline to complete the task is 28/02/2025

Please feel free to contact us at girishenterprises9090@gmail.com or 7972005923 to schedule a meeting at your convenience. Looking forward to a positive response.

Yours sincerely,  
Vishal shinde  
Manager,  
Girish Enterprises,  
Shiroli MIDC, kolhapur.  
7972005923





HIGHER WISDOM IS THE KEY  
**SANJEEVAN**

DTE Code : **ENG0115**

NAAC Accredited

AICTE ID : 1-8019151  
AIMS Code : C-11165

GROUP OF INSTITUTIONS, PANHALA

Sector 14, Panhala, Dist. Solapur, Maharashtra  
Phone : 0146999500

Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE, DOA  
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad  
Affiliated to Shivaji University, Kolhapur, MSBHU, Mumbai

## Informing HOD, Dean [R&D] & Principal Regarding The Consultancy Opportunity Through Mail

[Mail From Faculty To HOD, Dean [R&D] & Principal]





pravin maharashtra <pravin.atigare@seti.edu.in>

## Request for Approval to Undertake Consultancy Work of Girish Enterprises [Reducing the Rejection Percentage of Pallet Roller]

pravin maharashtra <pravin.atigare@seti.edu.in>

Mon, Feb 17, 2025 at 3:35

PM

To: HOD Mechanical <hodmech@seti.edu.in>, ajit katkar <ajit.katkar@seti.edu.in>

Cc: "Principal, Sanjeevan Group of Institutions." <principal@seti.edu.in>

Bcc: pravinatigre2487 <pravinatigre2487@gmail.com>, pravin atigre <pravinatigre2488@gmail.com>

Respected Sir,

I hope this message finds you well. I am writing to inform you that I have received a consultancy request from **Girish Enterprises** seeking our expertise in Reducing the Rejection Percentage of Pallet Roller Components.

The proposed consultancy aligns with our department's expertise and offers an excellent opportunity to address industry-relevant challenges while enhancing our institution's academic and professional standing.

I kindly request your approval to undertake this consultancy work. Please let me know if any additional documentation or formalities are required to proceed further. I assure you that the project will be managed in accordance with the college's policies and guidelines.

Thank you for your consideration and support. I look forward to your approval.

Regards

Mr. Praveen S. Atigre  
Assistant Professor  
Mechanical Engineering Department  
S.E.T.I., Panhala  
Mob: 7775888595





HOLYWOOD N. S. D. M. S.  
**SANJEEVAN**

GROUP OF INSTITUTIONS, PANHALA

Narayan, K. S. (College City, Sonawar, Panhal, Tal. Panhala, Dist. Kolhapur)  
Pin - 416 001 (Maharashtra) Phone - 9146999500

VVM Accredited

AICTE ID : 1-8019151  
AMIE Code : C-11165

Approved by AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE, DOA  
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad  
Affiliated to Shivaji University, Kolhapur, MSITF, Mumbai

DTE Code : ENGE15

## Notice of Meeting from R&D Cell To Discuss The Consultancy Opportunity With All HOD





# SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur  
Pin- 416 201 (Maharashtra) Phone : 9146999500

○ Approved By AICTE, New Delhi ○ Recognized by Govt. of Maharashtra, DTE.  
○ Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raichur  
○ Affiliated to Shivaji University, Kolhapur, MSBTE, Mumbai.

DTE Code : **ENG315**

NAAC Accredited

AICTE ID : 1-8019151  
AISHE Code : C-11165

Date: 17/02/2025

## Research & Development (R&D) Cell

Academic Year 2024-25

### Notice

This is to inform all department heads that a meeting has been scheduled to discuss a consultancy opportunity proposed by Girish Enterprises on Reducing the Rejection Percentage of Pallet Roller.

[ Consultancy Number : CW / 1 / Type-I / Mech / 2024-25 / 1 ].

#### Details of the Meeting:

- **Date:** Tuesday, 18/02/2025
- **Time:** 9.30 am to 10.00 am
- **Venue:** R&D Cell

#### Agenda:

1. Overview of the consultancy request from Girish Enterprises
2. Discussion on scope, deliverables, and timelines.
3. Allocation of responsibilities and points of contact. (Finalizing PI & or Co-PI)
4. Addressing queries and suggestions.
5. Review of consultancy work of all departments

All department heads are requested to attend the meeting and contribute their inputs to facilitate successful collaboration as well as to strengthen the consultancy work of the institute.

Dr. Ajit A. Katkar  
Dean (R&D) Cell  
Sanjeevan Group of Institutions



Dr. Sanjeev N. Jain  
Principal  
Sanjeevan Group of Institutions



HOLYWOOD OF THE EAST  
**SANJEEVAN**

GROUP OF INSTITUTIONS, PANHALA

New Education Society, C/O, Sanjeevan P.O., Jyoti, 1st Floor, D.H. Road, Kollhapur  
Dist. Solapur, Maharashtra. Phone: 9146999500

NAAC Accredited

AICTE ID : E-8019134  
AISHE Code : F-11165

- Approved by AICTE, New Delhi
- Recognized by Govt. of Maharashtra, DTE, DCA
- Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
- Affiliated to Savan University, Kollhapur, MSHE, Mumbai

DTE Code : ENG315

## Minutes of Meeting





# SANJEEVAN

## GROUP OF INSTITUTIONS, PANHALA

Sarveshwar Knowledge City, Sarveshwar Park, Panhala, Tal. Panhala, Dist. Kolhapur  
Pin- 416 201 (Maharashtra) Phone : 914699500

NAAC Accredited

AICTE ID : I-8019451  
AISHE Code : E-11165

Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE  
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raichur  
Affiliated to Shivaji University, Kolhapur, MSBTE, Mumbai.

DTE Code : EN0315

### Research & Development (R&D) Cell Academic Year 2024-25 Minutes of Meeting

Date : 18/02/2025

Time : 9.30 A.M.

Venue : R&D Cell

#### Key Points Discussed

1. The meeting commenced with a welcome address by the Principal Dr. Sanjeev N. Jain, who outlined the agenda for the meeting and introduced the key topics to be discussed.
2. Dr. Ajit A. Katkar [Dean of R&D Cell] discussed about the details of the Girish Enterprises. He also told the other department heads about the request from the Girish Enterprises for consultancy work of Reducing the Rejection Percentage of Pallet Roller [Consultancy No: CW/1/Type-I/Mech/2024-25/1].
3. Following faculty member from Mechanical Engineering Department were identified as potential contributor for this consultancy work by Dr. Ajit A. Katkar [Dean of R&D Cell] & Principal Dr. Sanjeev N. Jain.

i. Prof. Praveen S. Atigre ----- Principal Investigator (PI)

A tentative timeline of 10 days was proposed, with periodic reviews to monitor progress by Dr. Ajit A. Katkar [Dean of R&D Cell] & Principal Dr. Sanjeev N. Jain.

4. Principal Dr. Sanjeev N. Jain discussed the contribution of other departments in consultancy work.

5. At the outset Principal Dr. Sanjeev N. Jain thanked all the members for their kind presence. The following members attended the meeting

S. No	Name	Designation	Department	Sig.
1	Prof. E. P. Salokhe	Dean [Academics]	Civil Engineering Department	
2	Dr. G. C. Koli	NAAC Coordinator	Mechanical Engineering Department	
3	Dr. V. H. Deokar	Head of Department	Mechanical Engineering Department	
4	Prof. J. S. Mevekari	Head of Department	Civil Engineering Department	
5	Prof. R. S. Nejkar	Head of Department	Computer Science & Engineering Department	
6	Prof. V. T. Metkari	Head of Department	Electrical Engineering Department	

Dr. Ajit A. Katkar  
Dean (R&D) Cell  
Sanjeevan Group of Institutions



Dr. Sanjeev N. Jain  
Principal  
Sanjeevan Group of Institutions



HOLY-WOOD SOCIETY'S  
**SANJEEVAN**

**GROUP OF INSTITUTIONS, PANHALA**

Sanjeevan Knowledge City, Sanjeevan Park, P. O. - 410501, Tal. Panhala, Dist. Kolhapur,  
Pin. 410501 (Maharashtra) Phone: 9146999500

NAC Accredited

AICTE ID : 1-8019151  
AIMS Code : C-1167

- ☑ Approved By AICTE, New Delhi
- ☑ Recognized by Govt. of Maharashtra, DTE, DOA
- ☑ Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
- ☑ Affiliated to Shivaji University, Kolhapur, MSBIE, Mumbai

DTE Code : **ENG6115**

## Appointment Order Of Principal Investigator [PI]





HOLY WORD ACADEMY'S  
**SANJEEVA**

**GROUP OF INSTITUTIONS, PANHALA**

Sanjeevan Knowledge City, Sanjeevan Tech-Hub, Panhala, Tal. Panhala, Dist. Solapur  
Pin-416201 (Maharashtra) Phone: 9146999500

Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE,  
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, P.  
Affiliated to Shivaji University, Kolhapur, MSBU, Mumbai.

DTE Code : **ENG315**

**NAC Accredited**

AICTE ID : 1-8019451  
AISHE Code : C-11165

**Mechanical Engineering Department**

**Date: 18/02/2025**

### Appointment Order

With reference to the Consultancy Work proposed by Girish Enterprises, titled Reducing the Rejection Percentage of Pallet Roller [Consultancy Number : CW / 1 / Type-I / Mech / 2024-25 / 1], the following faculty member is hereby appointed as Principal Investigator (PI) to lead and execute the work:

Sr.No.	Name of Faculty	Role & Responsibility	Department	Consultancy No.
1	Prof. Praveen S. Atigre	Principal Investigator (PI)	Mechanical	[Consultancy Number : CW / 1 / Type-I / Mech / 2024-25 / 1]

#### Roles and Responsibilities:

1. Lead the consultancy work as per the approved scope and deliverables.
2. Ensure timely coordination with the company representatives and internal teams.
3. Utilize the college's resources and facilities effectively to achieve work objectives.
4. Maintain compliance with the college's consultancy policies and guidelines.
5. Submit regular progress reports to the Research and Development (R&D) Cell.

#### Terms and Conditions:

1. The work timeline and deliverables shall be adhered to as per the agreed schedule.
2. Financial management of the consultancy shall be overseen in coordination with Office & Principal.
3. Any issues or deviations shall be immediately reported to the Dean (R&D) & Principal.

Kindly acknowledge receipt of this appointment order and confirm your acceptance at the earliest.

We wish you all the best for this engagement.

Dr. Ajit A. Katkar  
Dean (R&D) Cell  
Sanjeevan Group of Institutions

Dr. Sanjeev N. Jain  
Principal  
Sanjeevan Group of Institutions



#### Copy to:

- R&D Cell
- Head of Mechanical Engineering Department
- Concerned Faculty Member

HOLY WOOD OF THE EAST  
**SANJEEVAN**

**GROUP OF INSTITUTIONS, PANHALA**

Sony, Knowledge City, Sector 14, Gurgaon, Haryana, India  
Panhal, Tal. Karjat, Dist. Solapur, Maharashtra, India  
Phone: 02146999366

- ✓ Approved by AICTE, New Delhi
- ✓ Recognized by Govt. of Maharashtra, DTE, DOW
- ✓ Provisional Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
- ✓ Affiliated to Shaiva University, Kolhapur, MSITD, Mumbai



VIVE VEDICREDS

AICTE ID : 1509034  
AAMI Code : 141167

DTE Code : **ENGL15**

## Approval of Consultancy Work From Institute





HOLY SPIRIT UNIVERSITY  
**SANJEEVAN**

GROUP OF INSTITUTIONS, PANTHA

Sanjeevan Knowledge City, Sonawar, Kolhapur, Dist. Kolhapur, Maharashtra  
Pin - 416 201 (Maharashtra) Phone : 91469 99500

AAC Accredited

AICTE ID : I-8019451  
AISHE Code : C-11165

Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE,  
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, KJ Somaiya  
Affiliated to Shivaji University, Kolhapur, MSRTU, Mumbai

DTE Code : **ENG315**

Date: 20/02/2025

## Approval of Consultancy Work

### Section A: General Information

#### 1. Faculty Details:

Sr. No.	Name of Faculty	Role & Responsibility	Department	Consultancy No. Received From R&D Cell
1	Prof. Praveen S. Atigre	Principal Investigator (PI)	Mechanical	[Consultancy Number : CW / I / Type-I / Mech / 2024-25 / 1]

- Consultancy Title:** Reducing the Rejection Percentage of Pallet Roller  
[Consultancy Number : CW / I / Type-I / Mech / 2024-25 / 1]
- Organization/Client Name:** Girish Enterprises
- Organization/Client Address :** Plot No B65 Behind Menon Engineering Services, Shiroli M.I.D.C. Kolhapur
- Nature of Consultancy Work:** The Company is facing problem of higher rejection rate of Pallet Roller component which is currently 8.2%. The company want us to achieve reduction in this rejection percentage or rate below 3.0%. To achieve this target the focus will be on use / implementation of quality control tools for rejection analysis & reduction of rejection percentage.
- Duration of Consultancy:**
  - Start Date: 22/02/2025
  - End Date: 28/02/2025 [The end date is tentative and may subject to change]
- Total Consultancy Fees:** Rs. 10,000/- Only
  - In Words : Ten Thousand Rupees Only





HOLY ANGEL ACADEMY  
**SANJEEVAN**

**GROUP OF INSTITUTIONS, PANHALA**

Sanjeevan Knowledge City, Sonwan Path-Jurke, Panhala, Tal. Panhala, Dist. P.  
Pin- 416 201 (Maharashtra) Phone : 9146999500

Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE  
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University,  
Affiliated to Shivaji University, Kolhapur, MSBTE, Mumbai.

DTE Code : **ENG315**

**NAAC Accredited**

AICTE ID : 1-8019451  
AISHE Code : C-11165

## Section B: Details of Work and Responsibilities

### 1. Scope of Work:

- To quantify the current rejection rate [Data Collection]
- To identify the primary causes of product rejections.
- To analyze the impact of these rejections on production costs and efficiency.
- To recommend practical and cost-effective solutions to reduce rejections.
- To provide a framework for continuous improvement in rejection management.

### 2. Expected Outcomes/Deliverables:

- Reduction in rejection rate (Need to achieve rejection rate less than 3% from 8.2%)
- Saving in cost associated with rejection / waste.

### 3. Time Commitment Required:

- o Date of Commencement : 22/02/2025
- o Expected Date of Completion : 28/02/2025
- o Number of Visits Required: Minimum 3-5 Visits [Number of Visits May Change based on quantum of work / requirements.]

### 4. Utilization of College Resources / Facilities (Specify if any):

Not Applicable





HOLY-WOOD ACADEMY'S  
**SANJEEVAN**

DTE Code : **ENG315**

NAAC Accredited

AICTE ID : 1-8019451  
AISHE Code : C-11165

GROUP OF INSTITUTIONS, PANHALA  
Sanjeevan Knowledge City, Somwar Peth-Indole, Panhala, Tal. Panhala, Dist. Kolhapur  
Pin- 416 201 (Maharashtra) Phone : 91-46999500

Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE, DOA  
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad  
Affiliated to Shivaji University, Kolhapur, MSBTE, Mumbai.

### Section C: Financial Details

#### 1. Revenue Sharing Details:

- A] Institution Share (%) : 30% of Consultancy Amount  
B] Principal Share (%) : 5% of Consultancy Amount  
C] HOD Share (%) : 5 % of Consultancy Amount  
D] Office Share (%) : 5 % of Consultancy Amount  
E] Faculty Share (%) : 55 % of Consultancy Amount

#### 2. Mode of Payment : Through Institution

Direct to Faculty

Through Institution

The Consultancy amount may be deposited in form of DD / Cheque or through Online in the account of Sanjeevan Engineering & Technology Institute Panhala, during or after completing the consultancy.

**Bank & Branch:** Cosmos Bank, Kolhapur **Account No.** 088100102356 **IFSC:** COSB0000088

### Section D: Approvals

#### Faculty Declaration

I hereby declare that the information provided above is accurate to the best of my knowledge. I agree to comply with the rules and regulations of the institution regarding consultancy work.

Sr. No	Name of Faculty	Role & Responsibility	Department	Signature of Faculty	Consultancy No. Received From R&D Cell
1	Prof. Praveen S. Atigre	Principal Investigator (PI)	Mechanical	<i>P.S. Atigre</i>	[Consultancy Number : CW / Type-I / Mech / 2024-25 / 1]

#### Consultancy Work Approved By:

*CK*  
Dr. Ajit A. Katkar  
Dean (R&D) Cell  
Sanjeevan Group of Institutions



*Sanjeev N. Jain*  
Dr. Sanjeev N. Jain  
Principal  
Sanjeevan Group of Institutions

Date: 20/02/2025



HOLYWOODS AT ADEALITY'S  
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**GROUP OF INSTITUTIONS, PANHALA**

Sanjeevan Knowledge City, Newwar Padi, Deol, Tal. Panhala, Dist. Kolhapur  
Pin-416201 (Maharashtra) Phone-9146999500

NAAC Accredited

AICTE ID : I-8019131  
MSHE Code : C-11163

Approved By AICTE, New Delhi. Recognized by Govt. of Maharashtra, DIT, DOA  
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Rajgad  
Affiliated to Shivaji University, Kolhapur, MSHE, Mumbai.

DTE Code : **ENG015**

## Proforma Invoice





NAAC Accredited

AICTE ID : 1-8019451  
AISHE Code : C-11165

GROUP OF INSTITUTIONS, PANHALA

Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur.  
Pin- 416 201 (Maharashtra) Phone : 9146999500

- Approved By AICTE, New Delhi
- Recognized by Govt. of Maharashtra, DTE, DOA
- Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
- Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.

DTE Code : **EN06315**Ref. No.: *SGI/Mech/consultancy/2025/28*

Date: 20/02/2025

**PROFORMA INVOICE**

**Consultancy No:** CW /1/Type-I/ Mech / 2024-25 /1

**Title of Consultancy:** Reducing the Rejection Percentage of Pallet Roller

**Name of the College:** Sanjeevan Group of Institutions Panhala.

**Address:** Sanjeevan Knowledge City, A/P Somwar Peth Injole,  
Panhala Tal: Panhala, Dist: Kolhapur 416201

**Email Id:** 1 Principal : principal@seti.edu.in  
2 Principal Investigator [P.I.]: pravin.atigare@seti.edu.in

**Mobile No :** 1 Principal : 9146999500  
2 Principal Investigator [P.I.]: 7775888595

**Name of the Client:** Girish Enterprises

**Client Address:** Plot No B65 Behind Menon Engineering Services, Shirolim.I.D.C. Kolhapur

Sr. No	Description of Consultancy	Amount [In Rs]
1	Reducing the Rejection Percentage of Pallet Roller (Need to achieve rejection rate less than 3% from 8.2%)	Rs 10,000/-
	<b>Total</b>	<b>Rs 10,000/-</b>

The Consultancy Amount may be deposited in form of DD/Cheque or through online in the account of Sanjeevan Engineering & Technology Institute Panhala, during or after completing the consultancy.

**Bank & Branch:** Cosmos Bank, Laxmipuri, Kolhapur      **Account No.** 088100102356

**IFSC:** COSB0000088

*P.S. Atigre*  
*20/2/2025*  
Prof. Praveen S. Atigre  
Principal Investigator  
Sanjeevan Group of Institutions

*CK*  
Dr. Ajit A. Katkar  
Dean (R&D) Cell  
Sanjeevan Group of Institutions

*Jain*  
Dr. Sanjeev N. Jain  
Principal  
Sanjeevan Group of Institutions





NMAC Accredited

AICTE ID : F-501943  
MSHE Code : F-11163

DTE Code : **ENG001.5**

**Sending Proforma Invoice to Industry**  
**[Mail From Principal Investigator [Faculty]**  
**to Industry]**





pravin maharashtra &lt;pravin.atigare@seti.edu.in&gt;

**Proforma Invoice For Consultancy Work\_ Reducing the Rejection Percentage of Pallet Roller\_ [Consultancy Number : CW /1/Type-II Mech / 2024-25 /1]**

pravin maharashtra &lt;pravin.atigare@seti.edu.in&gt;

Thu, Feb 20, 2025 at 4:38 PM

To: girishenterprises9090@gmail.com

Cc: "Principal, Sanjeevan Group of Institutions." &lt;principal@seti.edu.in&gt;

Bcc: pravin maharashtra &lt;pravin.atigare@seti.edu.in&gt;, pravinatigre2487

&lt;pravinatigre2487@gmail.com&gt;, pravin atigre &lt;pravinatigre2488@gmail.com&gt;

Dear Sir,

Please find the Proforma Invoice for Consultancy Work on Reducing the Rejection Percentage of Pallet Roller [Consultancy Number : CW /1/Type-II Mech / 2024-25 /1] as per our discussion.

Kindly review the details and let us know if you require any modifications.

Looking forward to your confirmation

--  
Regards

Mr. Praveen S. Atigre  
Assistant Professor  
Mechanical Engineering Department  
S.G.I., Panhala  
Mob: 7775888595



**PROFORMA INVOICE - SANJEEVAN.pdf**  
554K



HIGHER EDUCATION INSTITUTIONS  
**SANJEEVAN**

**GROUP OF INSTITUTIONS, PANHALA**

Sanjeevan Knowledge City, Sanjayar Park, In-101, Panhala, Tal. Panhala, Dist. Kolhapur  
Pin- 416 201 (Maharashtra) Phone: 9146999500

DTE Code : **ENG115**

**VAC Accredited**

AICTE ID : E-8019131  
AIMS Code : C-1165

- Approved By AICTE, New Delhi
- Recognized by Govt. of Maharashtra, DTE, DCA
- Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
- Affiliated to Shivaji University, Kolhapur, MSRTI, Mumbai

## Non-Disclosure Agreement Between Industry & Institute



DTE Code : **ENG315**



in Shree Sai mishra ji

NAAC Accredited

AICTE ID : 1-8019451  
AISHE Code : C-11165

Date: 28/02/2025

## Non-Disclosure Agreement

All the information collected and observation made during the consultancy work titled as "Reducing the Rejection Percentage of Pallet Roller" [Consultancy Number : CW / 1 / Type-I / Mech / 2024-25 / 1] at Girish Enterprises will be kept confidential by Sanjeevan Group of Institutions.

It may be used for educational purpose only after getting the written permission from the concerned authorized person from the Girish Enterprises.

If the Girish Enterprises is not willing to share the information, the information will not be shared and the confidentiality of that information will be maintained.

For Sanjeevan Group of Institutions	For Girish Enterprises [Company]
<p>Name: Dr. Sanjeev N. Jain</p> <p>Designation: Principal</p> <p>Signature: </p>	<p>Name: Vishal Shinde</p> <p>Designation: Manager</p> <p>Signature: </p>
<p>Name: Dr. Ajit A. Katkar</p> <p>Designation: Dean [R&amp;D]</p> <p>Signature: </p>	
<p>Name: Prof. P.S. Atigre</p> <p>Designation: Principal Investigator [P.I]</p> <p>Signature: </p> <p style="text-align: right;">28/2/25</p>	



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## Photographs Of Visit To Industry





### PHOTOGRAPHS



Visit To Girish Enterprises By Prof. Praveen S. Atigre [Principal Investigator] For Consultancy Work Entitled as "Reducing the Rejection Percentage of Pallet Roller" [Consultancy Number : CW /I/Type-I/ Mech / 2024-25 /1]





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### PHOTOGRAPHS



GPS Map Camera

Shirol, Maharashtra, India  
 65, Midc Industrial Area, Midc, Shirol, Maharashtra 416122,  
 India  
 Lat 16.753793° Long 74.273772°  
 01/03/2025 05:17 PM GMT +05:30

Submitting the Final Consultancy Report To Mr. Ananda Shinde  
[Owner of Girish Enterprises]





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Date: 01/03/2025

## FINAL CONSULTANCY REPORT

Consultancy Title	Reducing the Rejection Percentage of Pallet Roller
Consultancy Number	CW /I/Type-I/ Mech / 2024-25 /1
Industry / Client Name	Girish Enterprises
Industry / Client Address	Plot No B65 Behind Menon Engineering Services, Shiroli M.I.D.C. Kolhapur
Duration of Consultancy:	Start Date : 22/02/2025 End Date : 28/02/2025
Consultancy Completed By [Name of Faculty]	Prof. Praveen S. Atigre [Principal Investigator]
Department	Mechanical Engineering Department
Institute Name	Sanjeevan Group of Institution Panhala

*P.S. Atigre*

Prof. Praveen S. Atigre  
Principal Investigator  
Sanjeevan Group of Institutions

*CK*

Dr. Ajit A. Katkar  
Dean (R&D) Cell  
Sanjeevan Group of Institutions

*S. N. Jain*

Dr. Sanjeev N. Jain  
Principal  
Sanjeevan Group of Institutions



DTE Code : ENG315



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## FINAL CONSULTANCY REPORT

- A. Consultancy Title : Reducing the Rejection Percentage of Pallet Roller  
B. Consultancy Number : CW /1/Type-I/ Mech / 2024-25 /1  
C. Consultancy Completed By : Prof. Praveen S. Atigre [Principal Investigator]  
Sanjeevan Group of Institution Panhala  
D. Industry / Client Name : Girish Enterprises  
E. Industry / Client Address : Plot No B65 Behind Menon Engineering Services,  
Shiroli M.I.D.C. Kolhapur  
F. Duration of Consultancy: Start Date : 22/02/2025  
End Date : 28/02/2025

### 1. Introduction

This report presents the findings and recommendations from the rejection analysis consultancy entitled as "Reducing the Rejection Percentage of Pallet Roller" [Consultancy No. CW /1/Type-I/ Mech / 2024-25 /1] undertaken by Sanjeevan Group of Institution Panhala for Girish Enterprises. The objective of this consultancy was to identify the root causes of Pallet Roller rejections, analyze the contributing factors, and to provide the recommendations for process improvement to minimize defects and enhance overall product quality.

### 2. Scope of the Consultancy

The consultancy focused on:

- Identifying defects and rejection rates for Pallet Roller Component.
- Pareto Analysis
- Root cause analysis of major defects.
- Assessing the impact of defects on production cost and efficiency.
- Implementation of 8D Methodology
- Recommending corrective and preventive measures.





### 3. Methodology

The following methodologies were adopted for the rejection analysis:

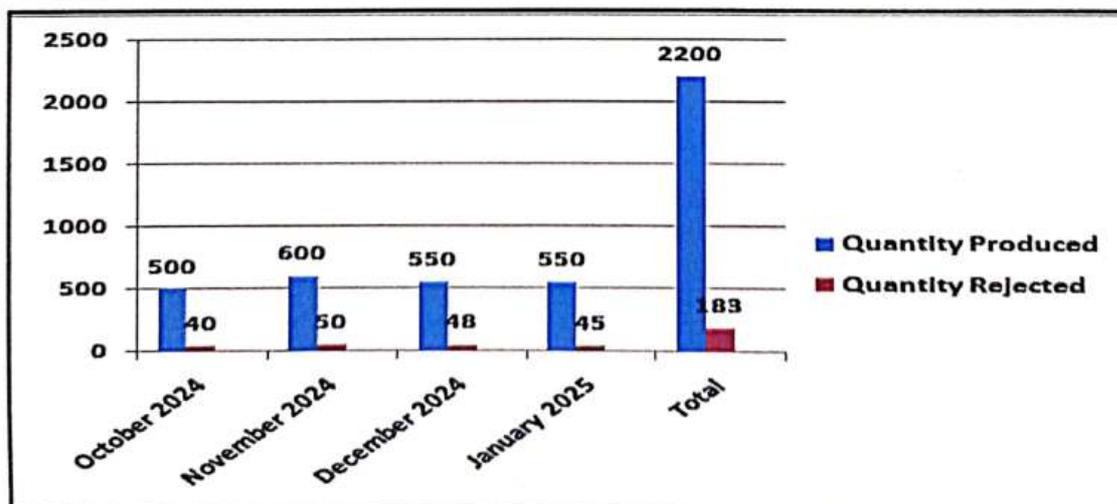
- **Data Collection:** Historical data of last 4 months on rejection rates and defect trends were obtained from the industry [From October 2024 to January 2025]
- **On-site Observations:** A faculty from Institute Prof. Praveen S. Atigre [Principal Investigator] conducted site visits to study the production processes.
- **Cause-and-Effect Analysis:** Fishbone diagrams and Pareto analysis were used to determine critical / major defects and its causes.
- **Why-Why Analysis and 8D Methodology:** During the consultancy used why-why analysis technique, 8D technique to solve the problem and to reduce rejection percentage.

### 4. Findings and Analysis

#### 4.1 Rejection Data

Rejection Data of Pallet Roller [October 2024-January 2025]

Month	Quantity Produced	Quantity Rejected	% Rejection	Total Cost of Rejection [In Rs]	Cost of Pallet Roller
October 2024	500	40	8.0	46000	* Cost of Per Component = Rs 1150
November 2024	600	50	8.3	57500	
December 2024	550	48	8.7	55200	
January 2025	550	45	8.2	51750	
<b>Total</b>	<b>2200</b>	<b>183</b>	<b>8.3</b>	<b>210450</b>	



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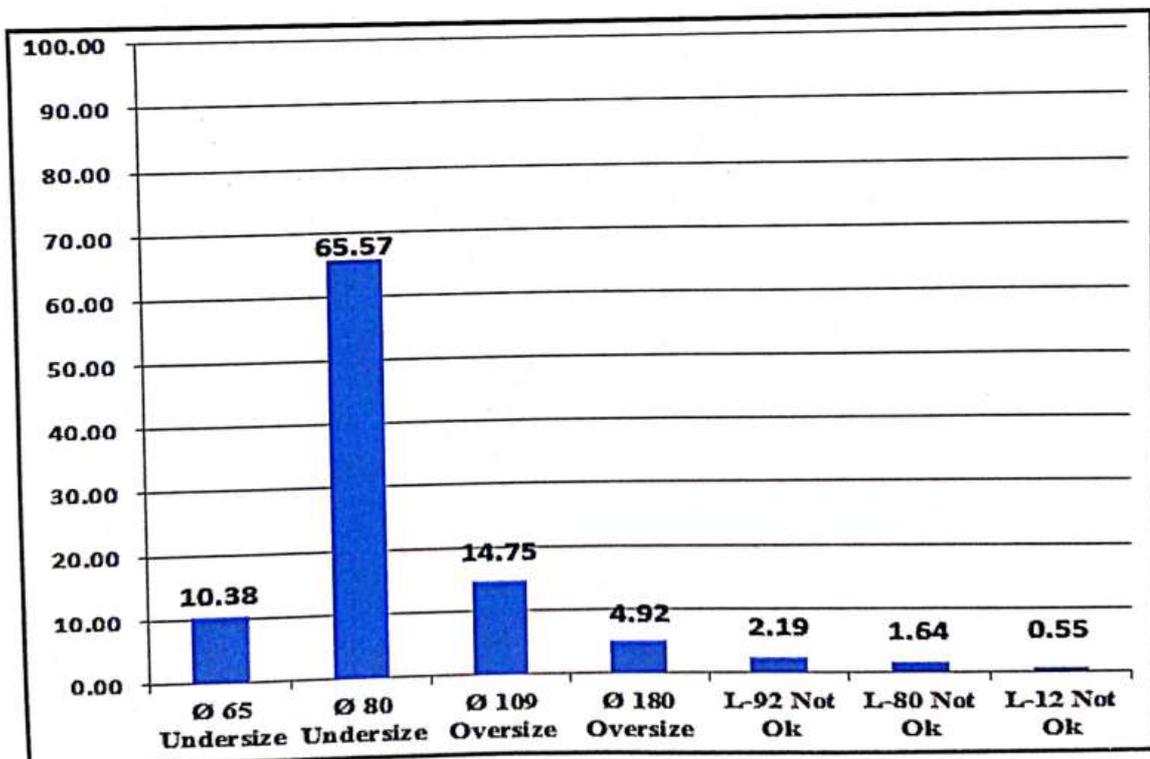
#### 4.2 Identification of Major Defect

The following defects were observed after completing the data collection activity:

#### Defect Wise Rejection Data

Month	Quantity Rejected	Defect Wise Rejection Data						
		Ø 65 Undersize	Ø 80 Undersize	Ø 109 Oversize	Ø 180 Oversize	L-92 Not Ok	L-80 Not Ok	L-12 Not Ok
Oct 2024	40	5	28	6	1	0	0	0
Nov 2024	50	4	36	8	1	1	0	0
Dec 2024	48	8	30	5	2	1	1	1
Jan 2025	45	2	26	8	5	2	2	0
<b>Total</b>	<b>183</b>	<b>19</b>	<b>120</b>	<b>27</b>	<b>9</b>	<b>4</b>	<b>3</b>	<b>1</b>
<b>% Rejection</b>	<b>100%</b>	<b>10.38</b>	<b>65.57</b>	<b>14.75</b>	<b>4.92</b>	<b>2.19</b>	<b>1.64</b>	<b>0.55</b>

↑  
% Rejection

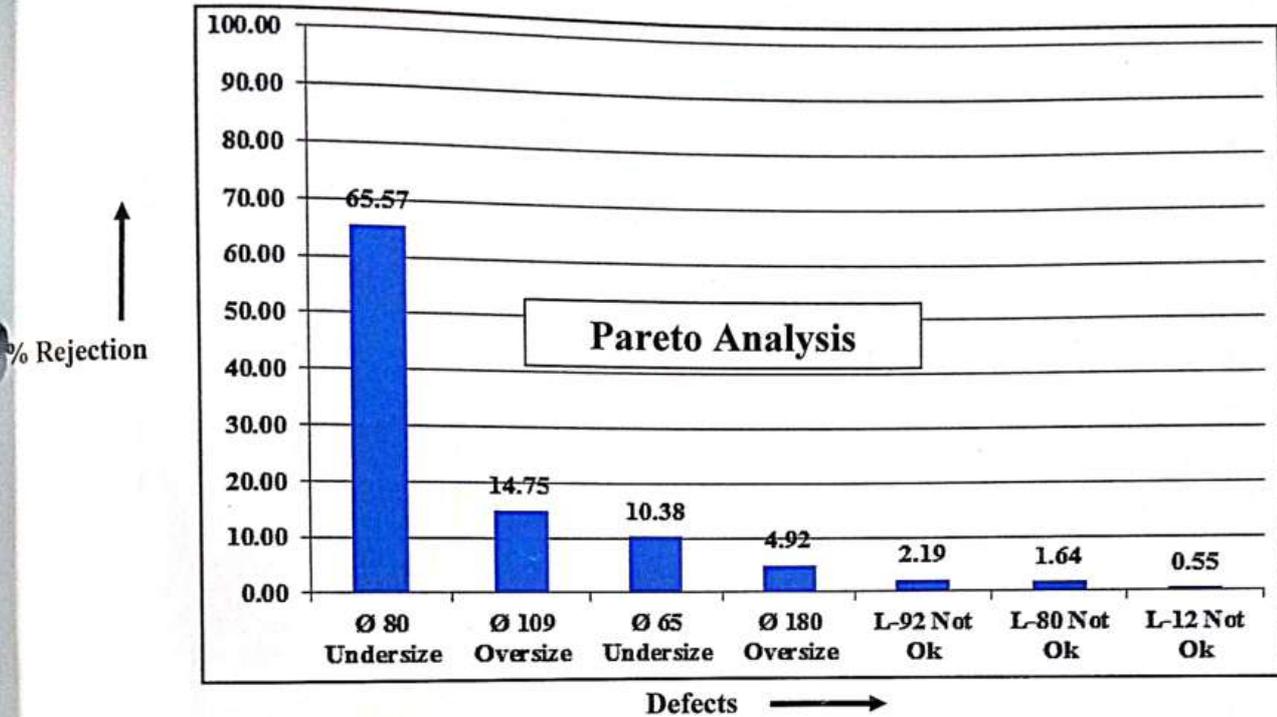


Defects →





4.2.1 Pareto Analysis



From the above Pareto Analysis it is clear that Ø 80 Undersize defect is the major defect which contributes 65.57% of total rejection. So in order to reduce rejection percentage drastically, there is need to solve Ø 80 Undersize defect.

5.0 Applying 8D Methodology to Solve the Problem

After selecting the part and major defect, 8D methodology is applied to solve the problem and 8D is closed through taking a trial lot after implementing suggestions for trial lot. The details of the activities are as follows.





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### Step 1: Forming the Cross-Functional Team

To solve the problem cross functional team was formed. From industry side, two persons from production department and one person from quality department participated in this activity. While from institute side one person [Principal Investigator] participated in this activity.

### Step 2: Description of the Problem

Statement of the defect as stated by Industry	Ø 80 Undersize
Where the defect is observed?	In industry [Production Department]
When it is observed?	16.2.2025
How many parts have the defects?	26 parts

### Step 3: Containing the Problem

All the parts potentially affected by this problem were identified and their locations were pinpointed. Parts already on the line were called back to the stores.

### Step 4: Identification of the Root Causes

To identify the root causes of occurrence of defect and to get deeper understanding of the probable causes for the occurrence of problem 'Brainstorming Technique is used. To identify the reasons, why-why analysis is used. Following are the probable causes for the occurrence of problem

- Wear and tear of cutting tool [6 Cutting Edge Tool Bit]
- Change of cutting edge of tool bit not followed by operator at defined frequency
- Change in hardness of work-piece material
- In-Process inspection not followed by operator at defined frequency





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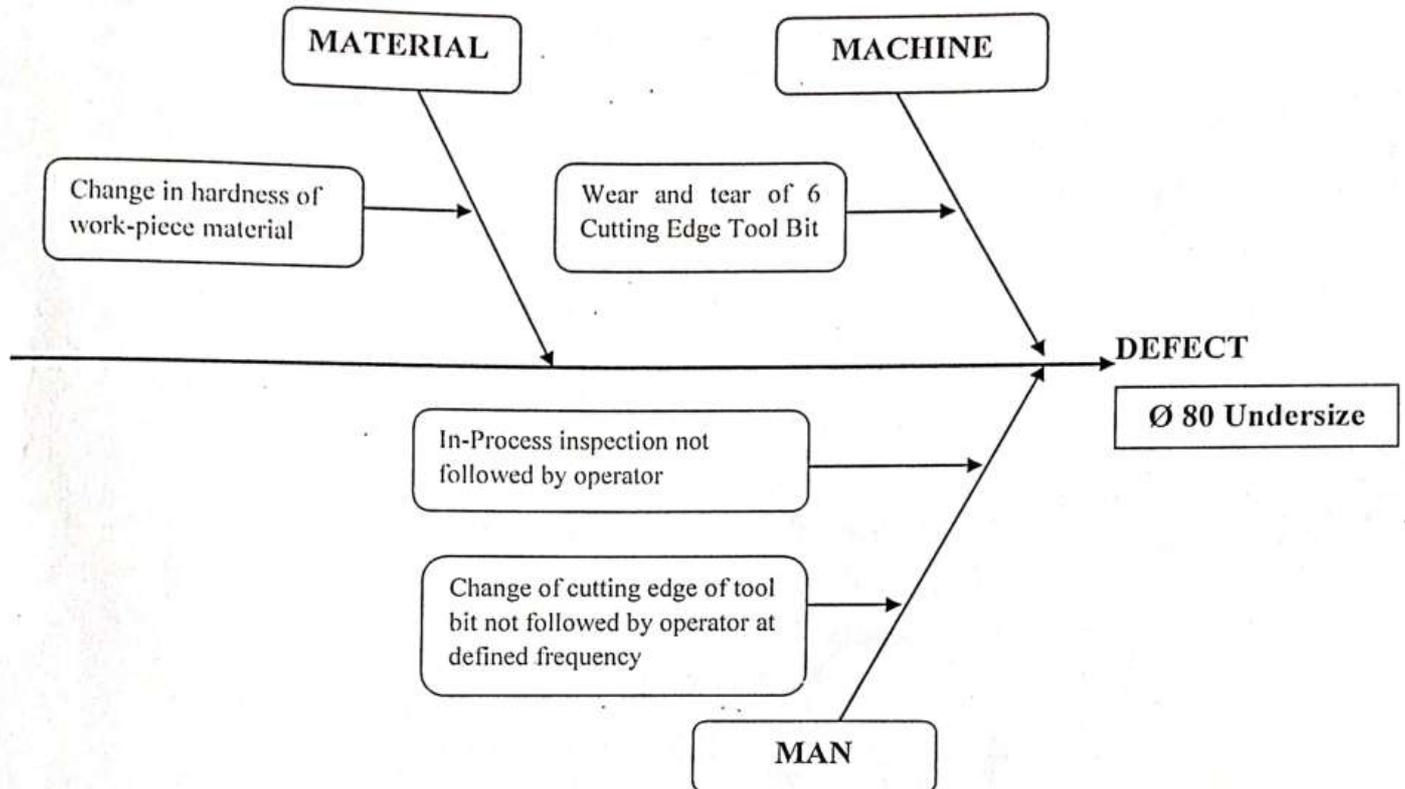
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Figure : Fish-Bone Diagram for the Identification of the Root Causes of Defect

### Step 5: Addressing the Corrective Action

Following are the corrective actions, recommended in order to avoid the occurrence of defect

- Use of 2 Separate tool bits for cutting actions [First tool bit for rough cut & second tool bit for finish cut]
- Changing the edge of tool bit every 10 jobs for rough cut.
- Changing the edge of tool bit every 15 jobs for finish cut
- Maintaining the tool history card
- Maintaining the In-Process Inspection Card for diameter of parts by operator at defined frequency





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### Step 6: Implementation of Corrective Actions

In order to correct and avoid the defect from occurring, following corrective actions were implemented.

Corrective Action Taken	Implementation Target Date	Responsibility	Result of all Corrective Actions (Effectiveness)
<ul style="list-style-type: none"> <li>Use of 2 Separate tool bits for cutting actions [First tool bit for rough cut &amp; second tool bit for finish cut]</li> <li>Changing the edge of tool bit every 10 jobs for rough cut.</li> <li>Changing the edge of tool bit every 15 jobs for finish cut</li> <li>Maintaining the tool history card</li> <li>Maintaining the In-Process Inspection Card for diameter of parts by operator at defined frequency</li> </ul>	28.02.2025	Person from Production Department	<ul style="list-style-type: none"> <li>Defects at the time of reporting = 26</li> <li>After completion of "Step 6" = 00</li> </ul>

### Step 7: Preventing the Re-occurrence of the Problem

Preventive Actions Taken	Implementation Target Date	Responsibility
<ol style="list-style-type: none"> <li>The tool history card is maintained</li> <li>In-Process Inspection Card is maintained</li> </ol>	01.03.2025	Person from Production Department (Team-Leader)





### Step 8: Congratulating the Team

This was the last step of the process. After solving the problem the Manager of production department Mr. Vishal Shinde acknowledged for good work done by 8D team and for solving the issue. After completing these 8 steps 8D report is prepared and submitted to Girish Enterprises.

### 6. Recommendations & Implementation of Recommendations

Following are the corrective actions recommended & implemented in order to avoid the occurrence of defect

- Use of 2 Separate tool bits for cutting actions [First tool bit for rough cut & second tool bit for finish cut]
- Changing the edge of tool bit every 10 jobs for rough cut.
- Changing the edge of tool bit every 15 jobs for finish cut
- Maintaining the tool history card
- Maintaining the In-Process Inspection Card for diameter of parts by operator at defined frequency

### 7. Results (Effectiveness)

After taking the permanent corrective actions and closing the 8D through trial lot, zero defects were observed for  $\varnothing$  80 undersize issue in the next 2 consecutive lots. So rejection level reduces to zero percent. So Production & Quality Department declares that the 8D activity is closed for this problem.

### 8. Conclusion

The rejection analysis consultancy entitled as "Reducing the Rejection Percentage of Pallet Roller [Consultancy No. CW /I/Type-I/ Mech / 2024-25 /I] undertaken by Sanjeevan Group of Institutions has provided valuable insights into the factors contributing to high rejection rates of Pallet Roller. The results of the consultancy proves that the 8D methodology is effective as after implementing this methodology and consistent monitoring for next 2 lots, no  $\varnothing$  80 undersize



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issue was observed till the date for Pallet Roller. So the rejection level for this defect [Ø 80 undersize issue ] reduces to zero percent. Also the Production & Quality Department declares that the 8D activity is closed for this problem.

### 9. Acknowledgements:

Sanjeevan Group of Institution would like to thank Girish Enterprises for the cooperation and support throughout this consultancy. We also acknowledge the contributions of Mr. Vishal Shinde [ Manager of Production Department ] for his consistent support & cooperation throughout this consultancy activity.

Report Prepared By : Prof. Praveen S. Atigre [Principal Investigator]  
Report Submitted to : Girish Enterprises  
Date : 01 / 03 / 2025

*P.S. Atigre*

Prof. Praveen S. Atigre  
Principal Investigator  
Sanjeevan Group of Institutions

*Ajit A. Katkar*

Dr. Ajit A. Katkar  
Dean (R&D) Cell  
Sanjeevan Group of Institutions

*Sanjeev N. Jain*

Dr. Sanjeev N. Jain  
Principal  
Sanjeevan Group of Institutions

*B. S. D.*



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21.03.2025

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Chq.No. 51075071  
SG

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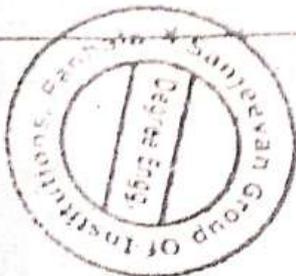
Received the amount from

Mr. / Miss. Girish Enterprises

Branch \_\_\_\_\_ Class \_\_\_\_\_

No.	Particulars	Amount (Rs.)
1	Admission Form fee	}
2	I-Card Fee	
3	Bonafide / Certificate Fee	
4	TC/LC Fee	
5	Library Fee	
6	Department Breakage	
7	Consultancy Fee <u>Mech.</u>	<u>10,000/-</u>
8	Other	
9	<u>consultancy No. ↓</u>	
	<u>[ CW / 1 / Type-1 / Mech / 2024-25 / 1 ]</u>	
	<b>Total</b>	<u>10,000/-</u>

In Word (Rs.) Ten Thousand Rs only



[Signature]  
Authorised Signatory  
A/C Dept.



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## Appreciation Letter To Principal Investigator [Faculty Member]





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Ref.No. : SGI | Mech | Appreciation letter | 2025 | 41

Date: 07/03/2025

### Appreciation Letter

To,  
Prof. Praveen S. Atigre  
Mechanical Engineering Department  
Sanjeevan Group of Institutions, Panhala.

**Subject:** Appreciation for Successful Completion of Industry Consultancy Work Entitled as "Reducing the Rejection Percentage of Pallet Roller [Consultancy Number: CW/1/Type-I/Mech/2024-25/1]."

Respected Sir,

On behalf of Sanjeevan Group of Institutions, I would like to extend my sincere appreciation and gratitude for your outstanding contribution to the successful completion of the consultancy work undertaken for Girish Enterprises, entitled as "Reducing the Rejection Percentage of Pallet Roller [Consultancy Number : CW/1/Type-I/Mech/2024-25/1]". Your dedication, expertise, and hard work have significantly contributed to the successful execution of the consultancy work, strengthening our institute's collaboration with the industry.

Your efforts in research, analysis, and problem-solving have been instrumental in achieving the objectives and enhancing the reputation of our institution. Your commitment to excellence and professionalism has set a commendable example for both faculty and students alike.

I truly value your contribution and look forward to your continued engagement in future consultancy and research projects. Once again, congratulations on this remarkable achievement!

Best Regards,

Dr. Sanjeev N. Jain

Principal

Sanjeevan Group of Institutions, Panhala.

