

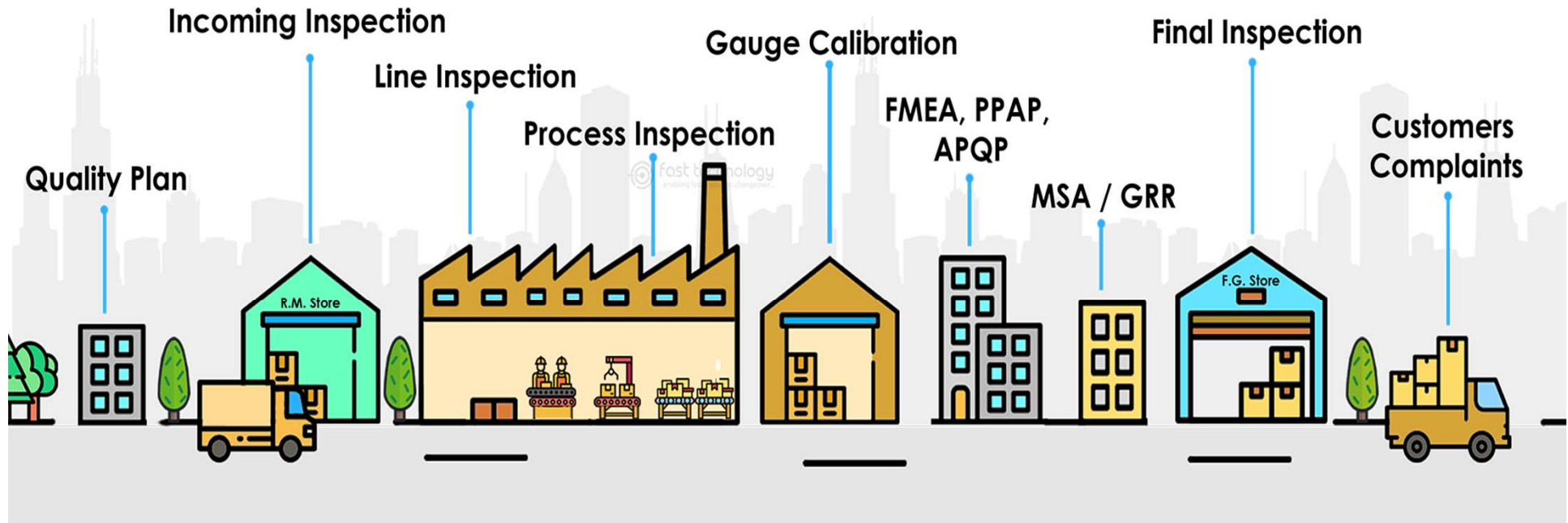
# Improsys

## Quality Management Software



**E mail:** [info@improsys.in](mailto:info@improsys.in) | **Contact Us:** 9922066745 | **Visit On:** [www.improsys.in](http://www.improsys.in)

## Coverage of Improsys QMS Software





**Design Control**

**Receiving or  
Incoming Inspection**

**Sample or  
First – Off Inspection**

**Final Inspection**

**In-Process Inspection**

**Gauge Inspection**

# FAST QMS - Features



**Simplicity and User friendliness.**



**Helps to improve your daily routine work and pending task.**



**Improves your productivity by avoiding the repetitive task.**



**All relevant data at ease. Faster data retrieval.**

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# FAST QMS - Features



**Designed for manufacturing environment.**



**No jargons. Simple language used.**



**Knowledge of Google Search and Email is just sufficient to operate.**



**Only business knowledge required to operate.**

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# FAST QMS - Features



**Responsive and personalized interface designed for end users**



**Customization done to suit business needs.**



**Latest technology of Visual Studio 2017 & .net framework 4.0 used.**



**Supports Email and SMS connectivity.**



**Compatibility with Excel, Word and PDF.**



**Follows IITF 16949 and ISO 9001 standards**



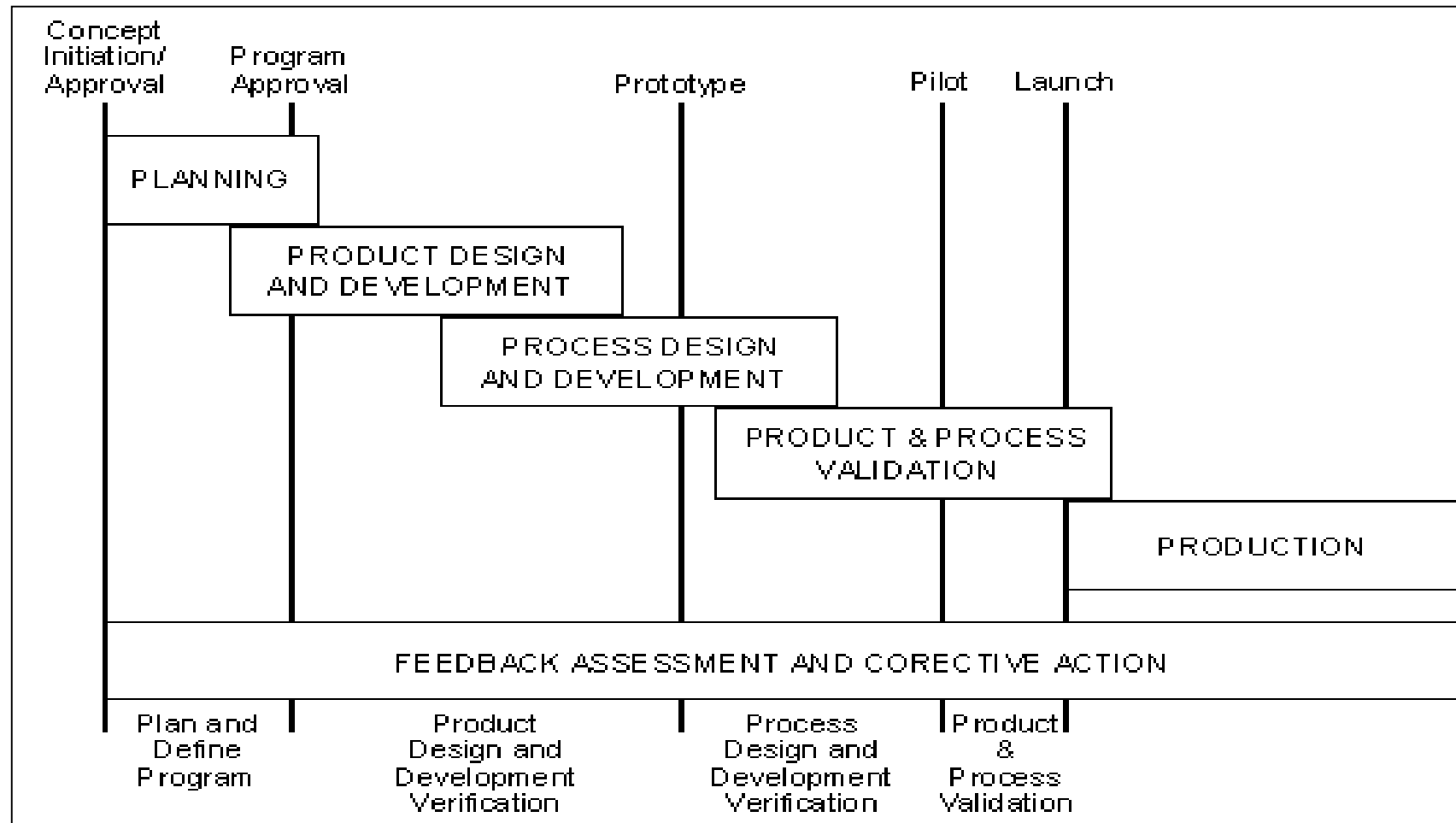
**Software is secured at an access level and data view level.**



**Multi Language Support**

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## Advanced Product Quality Planning



# 1. Planning

## Receipt of Enquiry

| Customer Details                                        |                              |                  |           |                  |                                |                     |                      |                           |                                           |
|---------------------------------------------------------|------------------------------|------------------|-----------|------------------|--------------------------------|---------------------|----------------------|---------------------------|-------------------------------------------|
| Enquiry No. :                                           | EQ/19-20/0001/48             |                  |           | Date :           | 20-May-2019                    |                     | Due Date             | 20-May-2025               |                                           |
| Doc Type                                                | Sales EQ                     |                  |           | Status           | Draft                          |                     |                      |                           |                                           |
| Party Name                                              | VARROC POLYMERS PVT LTD.     |                  |           | Party Code       | CUS000047                      |                     |                      |                           |                                           |
| Address                                                 | Marvel Edge                  |                  |           |                  |                                |                     |                      |                           |                                           |
|                                                         | Vimannagar                   |                  |           |                  |                                |                     |                      |                           |                                           |
|                                                         |                              |                  |           |                  |                                |                     |                      |                           |                                           |
| City                                                    | Pune                         |                  | State     | Maharashtra      |                                | Country             | India                |                           |                                           |
| Email ID                                                | raviraj@improsys.in          |                  |           | Mobile           | 9999999999                     |                     | Phone No.            | 02046700036               |                                           |
| Contacts                                                | <a href="#">Add Contacts</a> |                  |           | References       | <a href="#">Add References</a> |                     | Notes                | <a href="#">Add Notes</a> |                                           |
| Item Details                                            |                              |                  |           |                  |                                |                     |                      |                           |                                           |
| Item Code                                               |                              |                  |           | Item Description |                                |                     |                      |                           |                                           |
| Item Quantity                                           | 0                            |                  | Item Unit | Ampere           |                                |                     |                      |                           |                                           |
| <a href="#">Add Item</a>                                |                              |                  |           |                  |                                |                     |                      |                           |                                           |
| AddedItem                                               |                              |                  |           |                  |                                |                     |                      |                           |                                           |
| Sr No                                                   | Item Code                    | Item Description | Quantity  | UoM              | Delete                         | Spe                 | Sche                 | Notes                     | Ref Ref                                   |
| 1                                                       | 5QP129509/5QP129509A         | Air Raw Intake   | 1         | Nos.             | <a href="#">Delete</a>         | <a href="#">Spe</a> | <a href="#">Sche</a> | <a href="#">Notes</a>     | <a href="#">Ref.</a> <a href="#">Edit</a> |
| <a href="#">Save &amp; Exit</a> <a href="#">Preview</a> |                              |                  |           |                  |                                |                     |                      |                           |                                           |

# 1. Planning

## Allocation of Enquiry

### Assign Enquiry

| Select                   | Cont.Purpose | Contact Type       | Person Name       | Phone       | Mobile     | Email               |
|--------------------------|--------------|--------------------|-------------------|-------------|------------|---------------------|
| <input type="checkbox"/> | EmailandSms  | CustomerHead       | Mr. Pramod        | 02046700036 | 9999999999 | raviraj@improsys.in |
| <input type="checkbox"/> | Email        | SalesExecutive     | Raviraj Deshpande |             | 8550993421 | raviraj@improsys.in |
| <input type="checkbox"/> | Email        | Our Representative | Laxmikant Kathare |             | 9922066745 | cio@improsys.in     |
| <input type="checkbox"/> | Email        | Our Representative | Sudhakar Kulkarni |             |            | skulkarni@gmail.com |
| <input type="checkbox"/> | Email        | SalesExecutive     | Amey Bhawsar      |             | 9921428974 | amey@improsys.in    |

### Enquiry Assigned To

| Sr.No | Cont.Purpose | Contact Type   | Person Name       | Phone       | Mobile     | Email               | Delete                 |
|-------|--------------|----------------|-------------------|-------------|------------|---------------------|------------------------|
| 1     | EmailandSms  | CustomerHead   | Mr. Pramod        | 02046700036 | 9999999999 | raviraj@improsys.in | <a href="#">Delete</a> |
| 2     | Email        | SalesExecutive | Raviraj Deshpande |             | 8550993421 | raviraj@improsys.in | <a href="#">Delete</a> |

# 1. Planning

## Enquiry – Feasibility Review

| Added Document Item Requirements |                                                                                |                                     |
|----------------------------------|--------------------------------------------------------------------------------|-------------------------------------|
| SNo.                             | Req Type                                                                       | Description                         |
| 1                                | Is there adequate product Development knowledge?                               | <input type="text" value="Yes/No"/> |
| 2                                | Is there adequate Financial availability for Development of product?           | <input type="text" value="Yes/No"/> |
| 3                                | Is there adequate Financial availability for continuous production of product? | <input type="text" value="Yes/No"/> |
| 4                                | Is there adequate manufacturing capacity available?                            | <input type="text" value="Yes/No"/> |
| 5                                | Is there adequate outsourced facility available?                               | <input type="text" value="Yes/No"/> |
| 6                                | Is there adequate inspection/testing capacity available?                       | <input type="text" value="Yes/No"/> |
| 7                                | Development time is acceptable?                                                | <input type="text" value="Yes/No"/> |
| 8                                | Is Delivery capacity requirements acceptable?                                  | <input type="text" value="Yes/No"/> |

# 1. Planning

## Follow Up of Enquiry

Today's Pending

Last Week's Pending

Last Month's Pending

Last Year's Pending

In Progress

Draft

Released

Cancelled

Closed

Rejected

Priority Wise Doc

HIGH

MEDIUM

LOW

[Remove Filter](#)

**My In Progress Enquiry Documents**

| Doc.No.          | Created For       | Status      | Created By | Doc.Date  | Due.Date  | Last Update | Pend days | Party Name               |  |                      |                        |
|------------------|-------------------|-------------|------------|-----------|-----------|-------------|-----------|--------------------------|--|----------------------|------------------------|
| Select           | Select            | Select      | Select     | Select    | Select    | Select      | Select    | Select                   |  |                      |                        |
| EQ/19-20/0001/48 | Raviraj Deshpande | In Progress | RFQ        | 20/May/19 | 08/Aug/19 | 07/Aug/19   | -1        | VARROC POLYMERS PVT LTD. |  | <a href="#">Show</a> | <a href="#">Update</a> |

Send Alert

Pending

# 1. Planning

## Release of Enquiry

Update Document Details

Document Code

Enquiry

Document No.

EQ/19-20/0001/48

Party Name

VARROC POLYMERS PVT LTD.

Document Date

20/May/19

Document Due Date

08/Aug/19

Document Status

Released

Priority

High

Note Type

Final Remark

Note Description

[Hide Details](#)

Selected Document Details

Document

Document Date

5/20/2019 12:00:00 AM

Document No.

EQ/19-20/0001/48

Doc. Contact Person

Mr. Pramod

Doc. Sales Person

Raviraj Deshpande

Mobile No.

9999999999

Email ID

raviraj@improsys.in

Document Status

In Progress

Document Due Date

8/8/2019 12:00:00 AM

Document Party Name

VARROC POLYMERS PVT LTD.

Phone No.

02046700036

City

Pune

# 1. Planning

## Project Planning as per Enquiry

| Customer Details                                        |                                             |                  |          |                           |                                |               |                        |                              |                           |                      |                       |                      |                      |
|---------------------------------------------------------|---------------------------------------------|------------------|----------|---------------------------|--------------------------------|---------------|------------------------|------------------------------|---------------------------|----------------------|-----------------------|----------------------|----------------------|
| Project No. :                                           | VERROC/19-20/001/01                         |                  |          | Date :                    | 27-May-2019                    | Due Date      | 20-May-2025            |                              |                           |                      |                       |                      |                      |
| Doc Type                                                | Project                                     |                  |          | Status                    | Draft                          |               |                        |                              |                           |                      |                       |                      |                      |
| Party Name                                              | VARROC POLYMERS PVT LTD.                    |                  |          | Party Code                | CUS000047                      |               |                        |                              |                           |                      |                       |                      |                      |
| Address                                                 | Marvel Edge ,Vimannagar                     |                  |          |                           |                                |               |                        |                              |                           |                      |                       |                      |                      |
|                                                         |                                             |                  |          |                           |                                |               |                        |                              |                           |                      |                       |                      |                      |
|                                                         |                                             |                  |          |                           |                                |               |                        |                              |                           |                      |                       |                      |                      |
| City                                                    | Pune                                        |                  |          | State                     | Maharashtra                    |               | Country                | India                        |                           |                      |                       |                      |                      |
| Email ID                                                | raviraj@improsys.in                         |                  |          | Mobile                    | 9999999999                     |               | Phone No.              | 02046700036                  |                           |                      |                       |                      |                      |
| Project Description                                     | 5QP129509 and 5QP129509A - (W_18-19_11_299) |                  |          | Select Order No           | EQ/19-20/0001/48               |               |                        |                              |                           |                      |                       |                      |                      |
| Contacts                                                | <a href="#">Add Contacts</a>                |                  |          | References                | <a href="#">Add References</a> |               |                        | Notes                        | <a href="#">Add Notes</a> |                      |                       |                      |                      |
| Item Details                                            |                                             |                  |          |                           |                                |               |                        |                              |                           |                      |                       |                      |                      |
| Item Code                                               |                                             |                  |          | Item Description          |                                |               |                        |                              |                           |                      |                       |                      |                      |
| Item Quantity                                           | 0                                           |                  |          | Item Unit                 | Ampere                         |               |                        |                              |                           |                      |                       |                      |                      |
| Item Rate                                               | 0                                           |                  |          | Currency                  | Rs                             |               |                        |                              |                           |                      |                       |                      |                      |
| Discount in %                                           | 00.00                                       |                  |          | Currency Conversion in Rs | 1                              |               |                        |                              |                           |                      |                       |                      |                      |
| <a href="#">Add Item</a>                                |                                             |                  |          |                           |                                |               |                        |                              |                           |                      |                       |                      |                      |
| AddedItem                                               |                                             |                  |          |                           |                                |               |                        |                              |                           |                      |                       |                      |                      |
| Sr No                                                   | Item Code                                   | Item Description | Quantity | UoM                       | Rate                           | Discount in % | Delete                 | Item Charges                 | Spe                       | Sche                 | Notes                 | Ref                  | Ref                  |
| 1                                                       | 5QP129509/5QP129509A                        | Air Raw Intake   | 1        | Nos.                      | 0                              | 0             | <a href="#">Delete</a> | <a href="#">View Charges</a> | <a href="#">Spe</a>       | <a href="#">Sche</a> | <a href="#">Notes</a> | <a href="#">Ref.</a> | <a href="#">Edit</a> |
| <a href="#">Save &amp; Exit</a> <a href="#">Preview</a> |                                             |                  |          |                           |                                |               |                        |                              |                           |                      |                       |                      |                      |

# 1. Planning

## Project Document Management

**Add Reference**

Reference Type

Upload Document

File

Browse...

No file selected.

Status

Enabled

Ref Date

Reference Description

Save Reference

| SNo. | Ref Type        | Ref No                | Ref Date                 | Ref URL          | Description | Print Status                                |
|------|-----------------|-----------------------|--------------------------|------------------|-------------|---------------------------------------------|
| 1    | Upload Document | 5/20/2019 12:00:00 AM | 5S-Project-Checklist.pdf | Project Document | Enable      | <a href="#">Delete</a> <a href="#">Edit</a> |

Close

# 1. Planning

## Project Contact Management

| Select                              | Cont.Purpose | Contact Type       | Person Name       | Phone       | Mobile     | Email               |                        |
|-------------------------------------|--------------|--------------------|-------------------|-------------|------------|---------------------|------------------------|
| <input type="checkbox"/>            | EmailandSms  | CustomerHead       | Mr. Pramod        | 02046700036 | 9999999999 | raviraj@improsys.in |                        |
| <input checked="" type="checkbox"/> | Email        | SalesExecutive     | Raviraj Deshpande |             | 8550993421 | raviraj@improsys.in |                        |
| <input type="checkbox"/>            | Email        | Our Representative | Laxmikant Kathare |             | 9922066745 | cio@improsys.in     |                        |
| <input type="checkbox"/>            | Email        | Our Representative | Sudhakar Kulkarni |             |            | skulkarni@gmail.com |                        |
| <input type="checkbox"/>            | Email        | SalesExecutive     | Amey              |             | 0071478074 | amey@improsys.in    |                        |
| Added Contacts                      |              |                    |                   |             |            |                     |                        |
| Sr.No                               | Cont.Purpose | Contact Type       | Person Name       | Phone       | Mobile     | Email               | Delete                 |
| 1                                   | EmailandSms  | CustomerHead       | Mr. Pramod        | 02046700036 | 9999999999 | raviraj@improsys.in | <a href="#">Delete</a> |
| 2                                   | Email        | SalesExecutive     | Raviraj Deshpande |             | 8550993421 | raviraj@improsys.in | <a href="#">Delete</a> |

# 1. Planning

## Project Timeline – Milestone/Activity Timeline

Search Project No

Search Party

Select Project  

VERROC/19-20/001/01

KSB-FOUNDRY

12345

PJ0003

00002

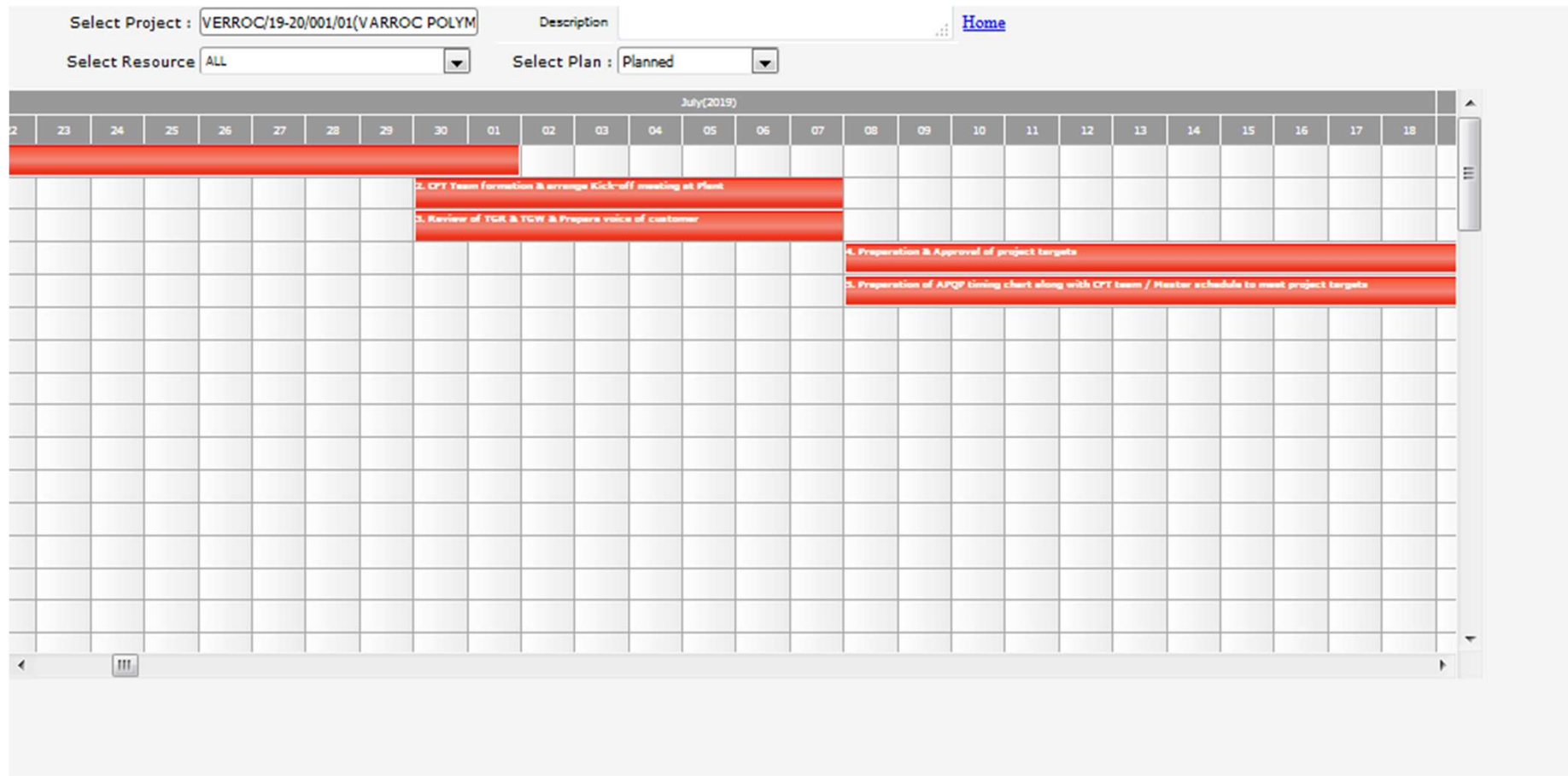
00001

**Project No : VERR0C/19-20/001/01 - VARROC POLYMERS PVT LTD.**  
**+ Add New Milestone**

| Sr.No. | Milestone                                                                                         | Resource | Status      | StartDate  | EndDate    | Add Task                 | Add Budget                 | View                        | Update Status                 | Edit                 |
|--------|---------------------------------------------------------------------------------------------------|----------|-------------|------------|------------|--------------------------|----------------------------|-----------------------------|-------------------------------|----------------------|
| 1      | 1. Gate 0 Closure - RFQ                                                                           | RFQ      | Completed   | 2019-05-27 | 2019-06-24 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 2      | 2. CFT Team formation & arrange Kick-off meeting at Plant                                         | PM       | In-Progress | 2019-07-01 | 2019-07-08 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 3      | 3. Review of TGR & TGW & Prepare voice of customer                                                | ENG      | Draft       | 2019-07-01 | 2019-07-08 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 4      | 4. Preparation & Approval of project targets                                                      | PM       | Draft       | 2019-07-08 | 2019-07-28 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 5      | 5. Preparation of APQP timing chart along with CFT team / Master schedule to meet project targets | PM       | Draft       | 2019-07-08 | 2019-07-28 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 6      | 6. Initiation, Release & Approval of CAPEX                                                        | LM       | Draft       | 2019-07-28 | 2019-08-27 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 7      | 7. Preparation of Process flow diagram & release to concerns                                      | ME       | Draft       | 2019-08-27 | 2019-10-06 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 8      | 8. Management review & Gate 1 Sign-off                                                            | PM       | Draft       | 2019-10-06 | 2019-10-16 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 9      | 9. Sample inspection at R&D lab                                                                   | ENG      | Draft       | 2019-09-02 | 2019-09-16 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 10     | 10. ABC Analysis (2D, 3D & Sample verification)                                                   | ENG      | Draft       | 2019-09-16 | 2019-09-23 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 11     | 11. Fine tuning of CAD & Approval from customer (B Release)                                       | ENG      | Draft       | 2019-09-23 | 2019-09-30 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 12     | 12. Preparation of final CAD, Mold input sheet & Release to Tool Room with full kit               | ENG      | Draft       | 2019-09-30 | 2019-10-10 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 13     | 13. Release FTG Specification with Full kit to ME                                                 | ENG      | Draft       | 2019-09-30 | 2019-10-10 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 14     | 14. Release BOP Enquiry with Full kit to CD                                                       | ENG      | Draft       | 2019-09-30 | 2019-10-10 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 15     | 15. Preparation of Packaging i/p sheet & start development                                        | LM       | Draft       | 2019-10-10 | 2019-10-24 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |
| 16     | 16. Prepare relation gauge concept from Supplier                                                  | NPDQC    | Draft       | 2019-10-10 | 2019-10-24 | <a href="#">Add Task</a> | <a href="#">Add Budget</a> | <a href="#">View Budget</a> | <a href="#">Update Status</a> | <a href="#">Edit</a> |

# 1. Planning

## Project Gantt Chart - Planned



# 1. Planning

## Project Activity Completion/Closure

**Update Activity Status**

Start Date :

Completion Date :

Start Time : 14 :00 :00

End Time : 14 :00 :00

Remark :

Completion in % :

Attach Document :  No file selected.

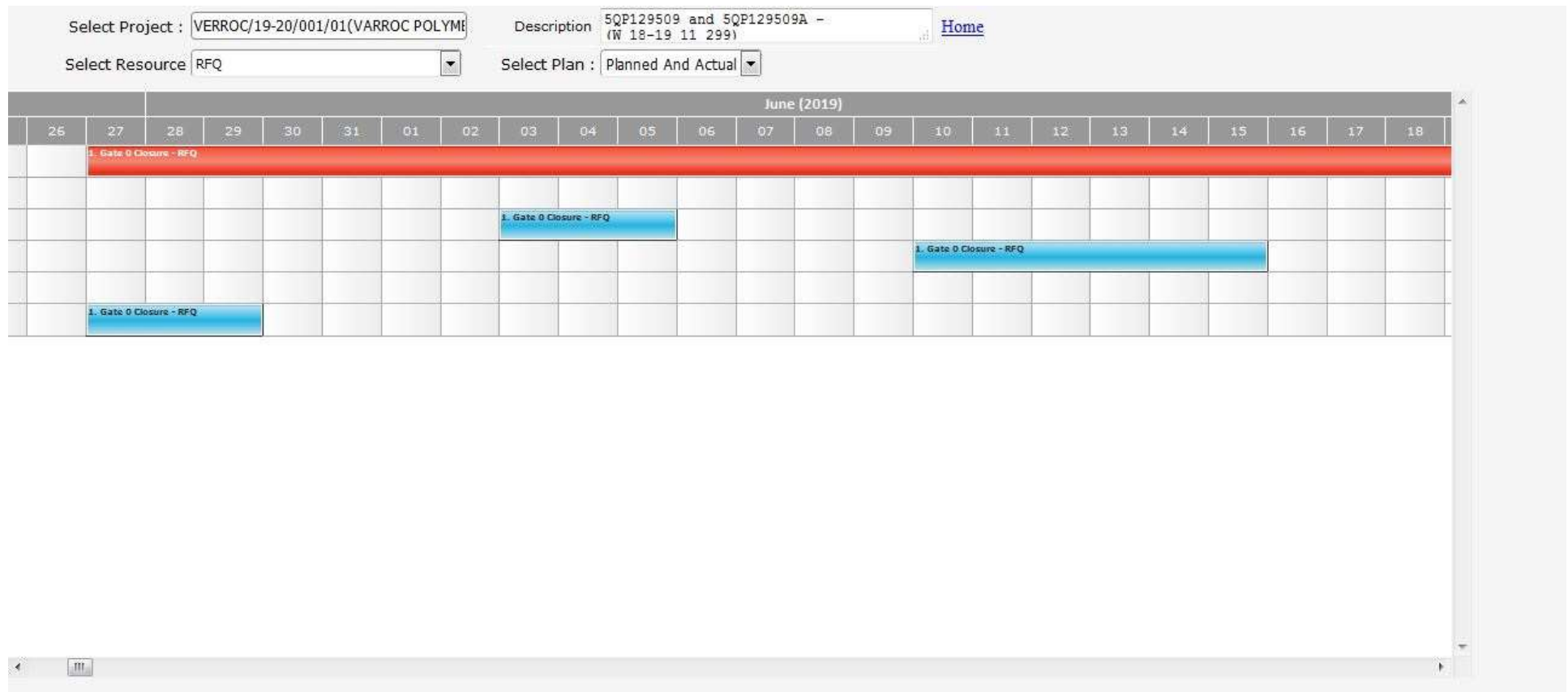
Doc Description :

**Activity History**

| Sr.No. | Activity                | Updated By | Start Date  | End Date    | Start Time | End Time | Status      | Remark                                                               | Compl % | View Doc                 | Add Expenses            | View Expenses            |
|--------|-------------------------|------------|-------------|-------------|------------|----------|-------------|----------------------------------------------------------------------|---------|--------------------------|-------------------------|--------------------------|
| 1      | 1. Gate 0 Closure - RFQ | RFQ        | 01/Jul/2019 | 06/Jul/2019 | 10:00 AM   | 01:00 PM | Completed   | Final discussion internally with team and recommendation for vendor. | 100     | <a href="#">View Doc</a> | <a href="#">Add Exp</a> | <a href="#">View Exp</a> |
| 2      | 1. Gate 0 Closure - RFQ | RFQ        | 24/Jun/2019 | 28/Jun/2019 | 10:00 AM   | 01:00 PM | In-Progress | Meeting with Vendor 3 at Site.                                       | 80      | <a href="#">View Doc</a> | <a href="#">Add Exp</a> | <a href="#">View Exp</a> |
| 3      | 1. Gate 0 Closure - RFQ | RFQ        | 10/Jun/2019 | 15/Jun/2019 | 10:00 AM   | 01:00 PM | In-Progress | Meeting with Vendor 2 at Site.                                       | 60      | <a href="#">View Doc</a> | <a href="#">Add Exp</a> | <a href="#">View Exp</a> |
| 4      | 1. Gate 0 Closure - RFQ | RFQ        | 03/Jun/2019 | 05/Jun/2019 | 10:00 AM   | 01:00 PM | In-Progress | Meeting with Vendor 1 at Site.                                       | 40      | <a href="#">View Doc</a> | <a href="#">Add Exp</a> | <a href="#">View Exp</a> |
| 5      | 1. Gate 0 Closure - RFQ | RFQ        | 27/May/2019 | 29/May/2019 | 10:00 AM   | 01:00 PM | In-Progress | Search of vendors for RFQ and further Activities.                    | 20      | <a href="#">View Doc</a> | <a href="#">Add Exp</a> | <a href="#">View Exp</a> |

# 1. Planning

## Project Gantt Chart – Plan vs Actual



## 2. Product Design and Development

### BOM Creation/Design Request

**Add Task Against Milestones**

Task Group : Design

Task Type : General

Created For : ENG

Select Party : VARROC POLYMERS PVT LTD. Reference No : W\_18-19\_11\_299

Priority : ☒ High ☐ Medium ☐ Low ☐ NA

Due Date : 07/Aug/2019

Subject : 11. Fine tuning of CAD & Approval from customer (B Release)

Description : Change in Design - Part A - Specification changed.

Save Task

Exit

| Created For | Status | Created By | Party Name               | Priority | Subject                                                     | Date      | Due Date    |
|-------------|--------|------------|--------------------------|----------|-------------------------------------------------------------|-----------|-------------|
| ENG         | Draft  | admin      | VARROC POLYMERS PVT LTD. | High     | 11. Fine tuning of CAD & Approval from customer (B Release) | 07/Aug/19 | 30/Sep/2019 |

## 2. Product Design and Development



### BOM Creation/Design Request

**BOM Header**

Order No

Date

| Item Code            | Description    | Item Qty | Item Unit |                                                  |
|----------------------|----------------|----------|-----------|--------------------------------------------------|
| 5QP129509/5QP129509A | Air Raw Intake | 1        | Nos.      | <a href="#">Show Spec</a> <a href="#">Select</a> |

BOM Code

BOM Description

BOM Code Already Present

**Resource Detail** [Add Child](#) [Copy Master BOM](#)

Item Code

Description

Position No

Quantity Per Parent

Price

Notes

[Add](#) [Update](#) [Delete](#) [Reset](#)

Selected Resource: 5QP129509/5QP129509A-Air Raw Intake (1 )

5QP129509/5QP129509A

- BOT0870-MS PLATED WASHER M12 (16 Nos.)
- BOT1275-H.T. PLATED HEX BOLT M12 x 30mm L GRADE 8.8 (10 Nos.)
- BOT0873-BALL VALVE 1inch (1 Nos.)
- BOT1059-HOSE REEL CONTROL PANNEL (1 Nos.)
- BOT0874-HYD. MOTOR MSE02 (1 Nos.)
- BOT0872-H.T. HEX NUT M12 (6 Nos.)
- BOT0876-ROTARY SWIVEL 1inch 90 D (1 Nos.)
- LAS0145-final\_hr\_chain\_cover\_sheet.prt MS SHEET 970 x 208 x 2mm THK JHR-00-00-00-00-01 (1 Nos.)
- BOT0877-STD CHAIN 1/2inch WITH LOCK (1 Nos.)
- LAS0146-final\_encoder\_mtg\_plate.prt MS SHEET 122x90x3.15mm THK JHR-00-00-00-00-02 (1 Nos.)
- PART0086-final\_hr\_suction\_boom\_pivot\_pin.prt MS ISRO DIA 35 x 275mm L JHR-00-00-00-00-03 (1 Nos.)
- PART0087-telescopic\_cylinder\_pin\_1.prt MS ISRO DIA 30 x 62mm L JHR-00-00-00-00-04 (1 Nos.)
- PART0088-telescopic\_cylinder\_pin\_2.prt MS ISRO DIA 22 x 55mm L JHR-00-00-00-00-05 (1 Nos.)
- BOT0872-H.T. HEX NUT M12 (4 Nos.)
- BOT0879-PLATED H.T. ALLEN BOLT M16X30 mm L GRADE 8.8 (10 Nos.)
- BOT0880-MS PLATED WASHER M8 (10 Nos.)
- BOT0881-PLATED H.T. HEX BOLT M8 x 25mm L GRADE 8.8 (10 Nos.)
- BOT0882-MS PLATED WASHER M4 (4 Nos.)
- BOT1276-PLATED H.T. HEX BOLT M4 x 15mm L GRADE 8.8 (4 Nos.)
- BOT0884-H.T. HEX NUT M4 (4 Nos.)
- BOT0885-H.T. HEX NUT M8 (6 Nos.)
- BOT0886-STD SPLIT PIN DIA 5X40 mmL (3 Nos.)
- BOT0887-JETTING HOSE 1-1/4inch x 150 Mtr. L (1 Nos.)

## 2. Product Design and Development

### BOM

| improsys<br>improvement in systems |         |                      |                                                                                                                    |            |          |                |          |             |          |
|------------------------------------|---------|----------------------|--------------------------------------------------------------------------------------------------------------------|------------|----------|----------------|----------|-------------|----------|
| Bill Of Material                   |         |                      |                                                                                                                    |            |          |                |          |             |          |
| SF-DES-003 R02                     |         |                      |                                                                                                                    |            |          |                |          |             |          |
| Ident Code                         |         | 5QP129509/5QP129509A |                                                                                                                    |            |          | Customer Code  |          | CUS000047   |          |
| Item Description                   |         | Air Raw Intake       |                                                                                                                    |            |          | Total Qty.     |          | 1           |          |
| Drawing No                         |         |                      |                                                                                                                    |            |          | Delivery date  |          | 31/Dec/2019 |          |
| Material                           |         |                      |                                                                                                                    |            |          | WO. Sr.No      |          | 21818       |          |
| Sr No                              | Pos. No | Item Code            | Item Description                                                                                                   | Drawing No | Material | Quantity & UOM | Standard | Remark      | ECN Note |
| 1                                  | 1       | BOT0870              | MS PLATED WASHER, M12                                                                                              |            |          | 16 Nos.        |          |             |          |
| 2                                  | 2       | BOT1275              | H.T. PLATED HEX BOLT M12 x 30mm L GRADE 8.8                                                                        |            |          | 10 Nos.        |          |             |          |
| 3                                  | 3       | BOT0872              | H.T. HEX NUT M12                                                                                                   |            |          | 6 Nos.         |          |             |          |
| 4                                  | 4       | BOT0873              | BALL VALVE 1inch                                                                                                   |            |          | 1 Nos.         |          |             |          |
| 5                                  | 5       | BOT1059              | HOSE REEL CONTROL PANNEL                                                                                           |            |          | 1 Nos.         |          |             |          |
| 6                                  | 6       | BOT0874              | HYD. MOTOR MSE02                                                                                                   |            |          | 1 Nos.         |          |             |          |
| 7                                  | 7       | BOT0876              | ROTARY SWIVEL 1inch 90 D                                                                                           |            |          | 1 Nos.         |          |             |          |
| 8                                  | 8       | LAS0145              | final_jhr_chain_cover_sheet.prt MS SHEET 970 x 208 x 2mm THK JHR-00-00-00-00-01                                    |            |          | 1 Nos.         |          |             |          |
| 9                                  | 9       | BOT0877              | STD CHAIN 1/2inch WITH LOCK                                                                                        |            |          | 1 Nos.         |          |             |          |
| 10                                 | 10      | LAS0146              | final_encoder_mtg_plate.prt MS SHEET 122x90x3.15mm THK JHR-00-00-00-00-02                                          |            |          | 1 Nos.         |          |             |          |
| 11                                 | 11      | PART0086             | final_jhr_suction_boom_pivot_pin.prt MS ISRO DIA 35 x 275mm L JHR-00-00-00-00-03                                   |            |          | 1 Nos.         |          |             |          |
| 12                                 | 1       | RM0169               | MS ISRO DIA 35                                                                                                     |            |          | 1.084 KGS      |          |             |          |
| 13                                 | 12      | PART0087             | telescopic_cylinder_pin_1.prt MS ISRO DIA 30 x 62mm L JHR-00-00-00-00-04                                           |            |          | 1 Nos.         |          |             |          |
| 14                                 | 1       | RM0180               | MS ISRO DIA 30                                                                                                     |            |          | 0.164 KGS      |          |             |          |
| 15                                 | 13      | PART0088             | telescopic_cylinder_pin_2.prt MS ISRO DIA 22 x 55mm L JHR-00-00-00-00-05                                           |            |          | 1 Nos.         |          |             |          |
| 16                                 | 1       | RM0181               | MS ISRO DIA 22                                                                                                     |            |          | 0.091 KGS      |          |             |          |
| 17                                 | 14      | BOT0872              | H.T. HEX NUT M12                                                                                                   |            |          | 4 Nos.         |          |             |          |
| 18                                 | 15      | BOT0879              | PLATED H.T. ALLEN BOLT M16X30 mm L GRADE 8.8                                                                       |            |          | 10 Nos.        |          |             |          |
| 19                                 | 16      | BOT0880              | MS PLATED WASHER, M8                                                                                               |            |          | 10 Nos.        |          |             |          |
| 20                                 | 17      | BOT0881              | PLATED H.T. HEX BOLT M8 x 25mm L GRADE 8.8                                                                         |            |          | 10 Nos.        |          |             |          |
| 21                                 | 18      | BOT0882              | MS PLATED WASHER, M4                                                                                               |            |          | 4 Nos.         |          |             |          |
| 22                                 | 19      | BOT1276              | PLATED H.T. HEX BOLT M4 x 15mm L GRADE 8.8                                                                         |            |          | 4 Nos.         |          |             |          |
| 23                                 | 20      | BOT0884              | H.T. HEX NUT M4                                                                                                    |            |          | 4 Nos.         |          |             |          |
| 24                                 | 21      | BOT0885              | H.T. HEX NUT M8                                                                                                    |            |          | 6 Nos.         |          |             |          |
| 25                                 | 22      | BOT0886              | STD SPLIT PIN DIA 5X40 mmL                                                                                         |            |          | 3 Nos.         |          |             |          |
| 26                                 | 23      | BOT0887              | JETTING HOSE 1-1/4inch x 150 Mtr. L                                                                                |            |          | 1 Nos.         |          |             |          |
| 27                                 |         | RM0226               | JETTING HOSE 1-1/4inch                                                                                             |            |          | 150 Mtr        |          |             |          |
| 28                                 | 24      | PART0089             | final_door_clamp_cylinder.asm HYD. CYLINDER DOUBLE ACTING BORE DIA 50 ROD DIA 28 CL 405, ST 100mm ADIC-00-03-00-00 |            |          | 1 Nos.         |          |             |          |
| 29                                 | 1       | BOT0875              | HYD. CYLINDER DOUBLE ACTING BORE DIA 50 ROD DIA 28 CL 405, ST 100mm                                                |            |          | 1 Nos.         |          |             |          |
| BOM Code: 00021818/00              |         |                      |                                                                                                                    |            |          |                |          |             |          |
| BOM Date: 07/Aug/2019              |         |                      |                                                                                                                    |            |          |                |          |             |          |
| Prepared By Raviraj Deshpande      |         |                      |                                                                                                                    |            |          |                |          |             |          |
| Prepared Date 07/Aug/2019          |         |                      |                                                                                                                    |            |          |                |          |             |          |
| WO No.: 50/0001/19-20/00/03        |         |                      |                                                                                                                    |            |          |                |          |             |          |
| WO Date: 07/Aug/2019               |         |                      |                                                                                                                    |            |          |                |          |             |          |
| Remarks                            |         |                      |                                                                                                                    |            |          |                |          |             |          |
| Checked By                         |         |                      |                                                                                                                    |            |          |                |          |             |          |
| Checked Date                       |         |                      |                                                                                                                    |            |          |                |          |             |          |

## 2. Product Design and Development

### BOM Approval

O.A. No

| <u>BOM</u>  | <u>Description</u> | <u>Item Code</u>     | <u>Item Description</u> | <u>Created By</u> | <u>Date</u> |                                              |
|-------------|--------------------|----------------------|-------------------------|-------------------|-------------|----------------------------------------------|
| 00021818/00 | Air Raw Intake     | 5QP129509/5QP129509A | Air Raw Intake          | raviraj           | 07/08/2019  | <a href="#">View</a> <a href="#">Release</a> |

## 2. Product Design and Development

### Product Drawings/Attachments

Document Item Reference

Select Item ARYAN PORTABLE FIRE PUMP (AFPUMP) ▼

Item Drawing URL  No file selected.

Item Drawing Description

Item Print Status Enable ▼

Added Document Item Drawing

|                      | Ref URL              | Print Status                        | Description |                        |
|----------------------|----------------------|-------------------------------------|-------------|------------------------|
| <a href="#">Edit</a> | 4SWP-ROI-0115_w1.pdf | <input checked="" type="checkbox"/> | DESIGN 1    | <a href="#">Delete</a> |
| <a href="#">Edit</a> | AQLChart.pdf         | <input checked="" type="checkbox"/> | -           | <a href="#">Delete</a> |

## 2. Product Design and Development

### Design FMEA

#### Failure Mode & Effect Analysis

|                 |                    |                        |                     |
|-----------------|--------------------|------------------------|---------------------|
| FMEA Type       | Design FMEA        | Status                 | True                |
| FMEA Number     | FMEA/19-20/0041/00 | Model Year             | 2018                |
| Core Team       | CFT Team           | Key Date               | 31-Aug-2019         |
| Enter Item Code | P8085001           | Enter Item Description | Sealing Foot Flap-1 |

FMEA Save Successfully.

Item Code : P8085001

Item Description : Sealing Foot Flap-1

|              |                             |                         |
|--------------|-----------------------------|-------------------------|
| Requirements | Failure Mode                | Effects of Failure      |
| SEV 0        | Select Failure Mode         | Select Failure Mode     |
| OCC 0        | Class                       |                         |
| DET 0        | Causes/Mechanism of Failure | Prevention              |
|              | Select Causes/Mechanism     | Select Causes/Mechanism |
|              | Detection                   |                         |
|              | Select Causes/Mechanism     |                         |

RPN No. : 0

#### Recommended Actions

|       |                     |                    |
|-------|---------------------|--------------------|
| SEV 0 | Recommended Actions | Res. & Target Date |
| OCC 0 | Action Taken        |                    |
| DET 0 |                     |                    |

RPN No. : 0

Save And Add Next

## 2. Product Design and Development

### Design FMEA - Approval

Change FMEA Status

Enter FMEA No. :

From Date :

Select Status :

To Date :

Show FMEA

| FMEA No            | FMEA Date   | Item Code | Item Description    | Reference No | Ref. Against | Update Staus                         | View                 |                        |
|--------------------|-------------|-----------|---------------------|--------------|--------------|--------------------------------------|----------------------|------------------------|
| FMEA/19-20/0042/00 | 07-Aug-2019 | P8087001  | Sealing Foot Flap-2 | P8087001     | Process FMEA | <input type="text" value="Release"/> | <a href="#">View</a> | <a href="#">Update</a> |
| FMEA/19-20/0041/00 | 07-Aug-2019 | P8085001  | Sealing Foot Flap-1 | P8085001     | Design FMEA  | <input type="text" value="Release"/> | <a href="#">View</a> | <a href="#">Update</a> |

### 3. Process Design and Development

## Process Plan

Process Entry

Process Code: 5QP129509/5QP129509A      Process Description: 5QP129509/5QP129509A

Process Quantity: 1      Process Unit: Nos

Remark:

[Click To Continue](#)

---

Operation Details

[From Master](#)

Process Code:       Process Description:

Process Quantity:       Unit:

Sequence No:       Workcenter Name: Manual

Process Cost: 0

Cycle Time(in Min):       Setting Time(in Min):

[Save and Add Next Operation](#)   [Save and Exit](#)

| Sr.No                  | Process Code | Process Name  | Process Quantity | Sequence No | Workcenter | Operation Cost |                        |
|------------------------|--------------|---------------|------------------|-------------|------------|----------------|------------------------|
| <a href="#">Edit</a> 1 | CU           | CUTTING       | 1                | 10          | Manual     | 10             | <a href="#">Delete</a> |
| <a href="#">Edit</a> 2 | FD           | FACE DRILLING | 1                | 20          | Manual     | 30             | <a href="#">Delete</a> |
| <a href="#">Edit</a> 3 | FG           | FACE GRINDING | 1                | 30          | Manual     | 11             | <a href="#">Delete</a> |

### 3. Process Design and Development

## Process Plan – Approve

**Add New Process**

Select Order Acceptance

**Item Details**

| Item Code            | Description    | Item Qty | Item Unit                   |
|----------------------|----------------|----------|-----------------------------|
| 5QP129509/5QP129509A | Air Raw Intake | 1        | Nos. <a href="#">Select</a> |

Process ID  Process Description

**Copy Process Sheet**

Process Code

Process Description

Process Quantity

Sequence No

Process Unit

Workcenter

Process Cost

Cycle Time(in Min)

Setting Time(in Min)

|                      | Process Code | Process Name  | Process Quantity | Sequence No | Workcenter | Operation Cost |                        |
|----------------------|--------------|---------------|------------------|-------------|------------|----------------|------------------------|
| <a href="#">Edit</a> | CU           | CUTTING       | 1                | 10          | MN         | 10             | <a href="#">Delete</a> |
| <a href="#">Edit</a> | FD           | FACE DRILLING | 1                | 20          | MN         | 30             | <a href="#">Delete</a> |
| <a href="#">Edit</a> | FG           | FACE GRINDING | 1                | 30          | MN         | 11             | <a href="#">Delete</a> |

### 3. Process Design and Development

## Process FMEA

|                 |                    |                        |                     |
|-----------------|--------------------|------------------------|---------------------|
| FMEA Type       | Process FMEA       | Status                 | True                |
| FMEA Number     | FMEA/19-20/0042/00 | Model Year             | 2018                |
| Core Team       | Quality+Production | Key Date               | 07-Aug-2019         |
| Enter Item Code | P8087001           | Enter Item Description | Sealing Foot Flap-2 |

select Item Wise Process (Process Function)

| Sr. No. | Process Code | Process Name | Process Quantity | Sequence No | Workcenter       | Process No | Operation No | Unit | Operation Cost |        |
|---------|--------------|--------------|------------------|-------------|------------------|------------|--------------|------|----------------|--------|
| 1       | OBSW         | Band Saw     | 1                | 20          | Band Saw Cutting | 345        | 1559         | Nos  | 0              | Select |
| 2       | OLAM         | Lamination   | 1                | 10          | Lamination       | 345        | 1558         | Nos  | 0              | Select |
| 3       | OPACK        | Packing      | 1                | 40          | Packing          | 345        | 1561         | Nos  | 0              | Select |

Process Code : OPACK

Process Name : Packing

|              |   |                             |                         |                    |                         |
|--------------|---|-----------------------------|-------------------------|--------------------|-------------------------|
| Requirements |   | Failure Mode                | Select Failure Mode     | Effects of Failure | Select Failure Mode     |
| SEV          | 0 | Class                       |                         |                    |                         |
| OCC          | 0 | Causes/Mechanism of Failure | Select Causes/Mechanism | Prevention         | Select Causes/Mechanism |
| DET          | 0 | Detection                   | Select Causes/Mechanism |                    |                         |
| RPN No. :    | 0 |                             |                         |                    |                         |

Recommended Actions

|     |   |                     |  |                    |  |
|-----|---|---------------------|--|--------------------|--|
| SEV | 0 | Recommended Actions |  | Res. & Target Date |  |
| OCC | 0 | Action Taken        |  |                    |  |

### 3. Process Design and Development

## Process FMEA - Approval

Change FMEA Status

Enter FMEA No. :

From Date :

Select Status :

To Date :

Show FMEA

| FMEA No            | FMEA Date   | Item Code | Item Description    | Reference No | Ref. Against | Update Staus                         | View                 |                        |
|--------------------|-------------|-----------|---------------------|--------------|--------------|--------------------------------------|----------------------|------------------------|
| FMEA/19-20/0042/00 | 07-Aug-2019 | P8087001  | Sealing Foot Flap-2 | P8087001     | Process FMEA | <input type="text" value="Release"/> | <a href="#">View</a> | <a href="#">Update</a> |
| FMEA/19-20/0041/00 | 07-Aug-2019 | P8085001  | Sealing Foot Flap-1 | P8085001     | Design FMEA  | <input type="text" value="Release"/> | <a href="#">View</a> | <a href="#">Update</a> |

## 4. Product and Process Validation

### Sample/Trial Production Order

| Customer Details       |                                                                                                                                            |                        |          |                           |                |               |                     |             |              |     |      |       |      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------|---------------------------|----------------|---------------|---------------------|-------------|--------------|-----|------|-------|------|
| Order Acceptance No. : | S-0001                                                                                                                                     |                        |          | Date :                    | 07-Aug-2019    |               | Due Date            | 07-Aug-2019 |              |     |      |       |      |
| Doc Type               | Sample                                                                                                                                     |                        |          | Status                    | Draft          |               |                     |             |              |     |      |       |      |
| Party Name             | Tata Motors Ltd. Pimpri                                                                                                                    |                        |          | Party Code                | TATAMPIMP      |               |                     |             |              |     |      |       |      |
| Address                | Pimpri                                                                                                                                     |                        |          |                           |                |               |                     |             |              |     |      |       |      |
|                        | Pune 411018                                                                                                                                |                        |          |                           |                |               |                     |             |              |     |      |       |      |
|                        |                                                                                                                                            |                        |          |                           |                |               |                     |             |              |     |      |       |      |
| City                   | Pune                                                                                                                                       |                        |          | State                     | Maharashtra    |               | Country             | India       |              |     |      |       |      |
| Email ID               |                                                                                                                                            |                        |          | Mobile                    |                |               | Phone No.           |             |              |     |      |       |      |
| Against                | <input checked="" type="radio"/> No Ref <input type="radio"/> Enquiry <input type="radio"/> Quotation <input type="radio"/> Previous Order |                        |          |                           |                |               |                     |             |              |     |      |       |      |
| Contacts               | Add Contacts                                                                                                                               |                        |          | References                | Add References |               |                     | Notes       | Add Notes    |     |      |       |      |
| Item Details           |                                                                                                                                            |                        |          |                           |                |               |                     |             |              |     |      |       |      |
| Item Code              |                                                                                                                                            |                        |          | Item Description          |                |               |                     |             |              |     |      |       |      |
| Item Quantity          |                                                                                                                                            |                        |          | Item Unit                 | Number         |               |                     |             |              |     |      |       |      |
| Item Rate              |                                                                                                                                            |                        |          | Currency                  | Rs             |               |                     |             |              |     |      |       |      |
| Discount in %          | 0                                                                                                                                          |                        |          | Currency Conversion in Rs | 1              |               |                     |             |              |     |      |       |      |
| Add Item               |                                                                                                                                            |                        |          |                           |                |               |                     |             |              |     |      |       |      |
| AddedItem              |                                                                                                                                            |                        |          |                           |                |               |                     |             |              |     |      |       |      |
| Sr No                  | Item Code                                                                                                                                  | Item Description       | Quantity | UoM                       | Rate           | Discount in % | Currency Conversion | Delete      | Item Charges | Spe | Sche | Notes | Ref  |
| 1                      | 287062205302                                                                                                                               | Wiper motor Foam panel | 100      | No.                       | 1              | 0             | 1                   | Delete      | View Charges | Spe | Sche | Notes | Ref. |
| Save & Exit            |                                                                                                                                            |                        |          |                           |                |               |                     |             |              |     |      |       |      |

## 4. Product and Process Validation

### Quality Plan - Sample

Quality Plan

Plan Type

Sample

Plan No.

QP/19-20/0048/00

Plan Created For

anand

Select Reference

☒ No Reference ☐ Master BOM Reference ☐ PO Reference ☐ OA Reference ☐ Against OA Process

Plan Date

07-Aug-2019

Item Code

Item Description

Add Items

|      | Item Code | Item Description                   |             |        |
|------|-----------|------------------------------------|-------------|--------|
| Edit | 10009936  | FOAM WASHER OD 14.5 X ID 5 X 2 THK | Create Plan | Delete |

## 4. Product and Process Validation

### Quality Plan - Sample

Selected

Not Selected

Added in List

Length

Height

Material Quality

Material Color

Set Attribute

W7500200-D7

W7500200-D5

W7500200-A4

W7500200-D5

Specification Type

Attribute

Specification Code

SP0081

Specification Name

Visual Appearance

Spec. Target Value

No Step , Drawmark.Dent & Damage

Spec. Standard Value

No Step , Drawmark.Dent & Damage

Frequency :

Record :

Enter Spec. Values

Add

1) No Step , Drawmark.Dent & Damage

Select Instrument :

Select Instrument

Assign Instruments

Inspection Methods :

Manual

Add Inspection Methods

1) Manual

Save and Add Next Specification

| Specification Code | Specification Name | Spec. Standard                   | Spec. Target                     | Edit | Delete |
|--------------------|--------------------|----------------------------------|----------------------------------|------|--------|
| SP0001             | Length             | 100                              | 200                              | Edit | Delete |
| SP0081             | Visual Appearance  | No Step , Drawmark.Dent & Damage | No Step , Drawmark.Dent & Damage | Edit | Delete |

Save and Plan Next Item

Save and Exit

## 4. Product and Process Validation

### Process Specification/ Requirements

ProcessType

Specifications

Values

| Sr.No. | Process Type | Specifications   | Values               |
|--------|--------------|------------------|----------------------|
| 1      | FG           | Die Cavity       | <a href="#">Edit</a> |
| 2      | FG           | No. of Strokes   | <a href="#">Edit</a> |
| 3      | FG           | Remark           | <a href="#">Edit</a> |
| 4      | PKG          |                  | <a href="#">Edit</a> |
| 5      | PKG          | Standerd Packing | <a href="#">Edit</a> |
| 6      | PKG          | No. of Packets   | <a href="#">Edit</a> |
| 7      | PKG          | Remark           | <a href="#">Edit</a> |

Process Name

Process Description

**Operation Details**

- ▶ Band Saw
- ▶ Lamination
- ▶ Packing
- ▶ [Punching](#)

**Select Specification**

| SrNo | Specifcation Name | Specifcation Value   | Select                   |
|------|-------------------|----------------------|--------------------------|
| 1    | Date              | <input type="text"/> | <input type="checkbox"/> |
| 2    | Die Cavity        | <input type="text"/> | <input type="checkbox"/> |
| 3    | Length in mm      | <input type="text"/> | <input type="checkbox"/> |
| 4    | No. of packets    | <input type="text"/> | <input type="checkbox"/> |
| 5    | No. of stroke     | <input type="text"/> | <input type="checkbox"/> |
| 6    | Qty to Cut        | <input type="text"/> | <input type="checkbox"/> |
| 7    | Remark            | <input type="text"/> | <input type="checkbox"/> |
| 8    | Standerd Packing  | <input type="text"/> | <input type="checkbox"/> |
| 9    | Width in mm       | <input type="text"/> | <input type="checkbox"/> |

## 4. Product and Process Validation

### Sample Production Run

Welcome to Improsys Production Entry System.

SCAN DETAILS

Machine :  
TACPL/PROD/SH-01  
Operator One:  
SUBHASH

M/c

Shift :  
Second

PROCESS STATUS

Select Requisition No:  
RES192000002159

Update Breakdown/General Work details

| Sr No | Start Time | Item Code | Process Name | Seq. No | Ok Qty | Not Ok Qty | Start Time | End Time | Setting Time | Save | Inspection |
|-------|------------|-----------|--------------|---------|--------|------------|------------|----------|--------------|------|------------|
| 1     | START      | W10511603 | Shearing     | 10      | 0      | 0          | 23:23      | 00:00    | 0            | END  | Inspection |

Add Specification

| Sr.No | Item Code  | Process Code | Specification | Standard Value | Actual Value |
|-------|------------|--------------|---------------|----------------|--------------|
| 1     | P898300201 | STRIPQTY     | WIDTH IN MM   | 245            |              |
| 2     | P898300201 | STRIPQTY     | Remark        | 0              |              |
| 3     | P898300201 | STRIPQTY     | LENGTH IN MM  | 1000           |              |

STRIPQTY Ok Qty: 0 Rejected Qty: 0

Save

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## 4. Product and Process Validation

### Sample Inspection Report

| <b>IMPROSYS</b>                       |                        |                                  |            | <b>Inspection Report</b> |           | <b>Inspection No. : ARE/1819/00017/159</b> |                                  |                       |                |
|---------------------------------------|------------------------|----------------------------------|------------|--------------------------|-----------|--------------------------------------------|----------------------------------|-----------------------|----------------|
| <b>Supplier Name : GLOBAL COMPANY</b> |                        |                                  |            |                          |           | <b>Quality Plan No : QP/18-19/0029/00</b>  |                                  |                       |                |
| Item Code : A0DAB1901M00              |                        | Item Description : Foam Sumo VE  |            | Sample Size : 2          |           | Inspection Type : Sample Inspection        |                                  | Number Of Redings : 2 |                |
| Instrument Name :                     |                        | Inspector Name : plant2          |            | Plan Date : 2018/10/03   |           | Reference No. : TACPL/AS/10-18/0016/00     |                                  | Created By :          |                |
| <b>Inspected Item Specifications</b>  |                        |                                  |            |                          |           |                                            |                                  |                       |                |
| Sr.No.                                | PARAMETER              | Std. Value                       | Instrument | Inspection Method        | Frequency | Record                                     | OBSERVATION                      |                       |                |
| 1                                     | Diamter (piston)       | 5.7                              | 45554      | MICROMETER               | 2         | 2                                          | 5.4                              | Pass                  | Uploaded Image |
| 2                                     | Chamfer (piston)       | 0.5                              | 45554      | Visual                   | 2         | 2                                          | 0.4                              | Pass                  |                |
| 3                                     | CH.OR.Radius           | 3                                | 45554      | Visual                   | 2         | 2                                          | 2.9                              | Pass                  |                |
| 4                                     | Coller                 | 4.3                              | 45554      | Vernier                  | 2         | 2                                          | 4.2                              | Pass                  |                |
| 5                                     | GROOVE DIA             | 8                                | 45554      | BLEAD MICROMETER         | 2         | 2                                          | 7.8                              | Pass                  |                |
| 6                                     | GROOVE WIDTH           | 1.0                              | 45554      | Vernier                  | 2         | 2                                          | 0.9                              | Pass                  |                |
| 7                                     | INNER DEPTH            | 16.0                             | 45554      | Height Guage             | 2         | 2                                          | 15.6                             | Pass                  |                |
| 8                                     | CYLENDRICITY           | 0.01                             | 45554      | Layout Method            | 2         | 2                                          | 0.01                             | Pass                  |                |
| 9                                     | PROFILE                | 0.015                            | 45554      | Layout Method            | 2         | 2                                          | 0.013                            | Pass                  |                |
| 10                                    | INNER DIA              | 8.55                             | 45554      | CONTRACER                | 2         | 2                                          | 8.54                             | Pass                  |                |
| 11                                    | Diameter (Piston1)     | 12                               | 45554      | Digital MICK             | 2         | 2                                          | 12                               | Pass                  |                |
| 12                                    | Angle (Piston)         | 13                               | 45554      | CONTRACER                | 2         | 2                                          | 13                               | Pass                  |                |
| 13                                    | Radius (Piston)        | 2.7                              | 45554      | CONTRACER                | 2         | 2                                          | 2.6                              | Pass                  |                |
| 14                                    | Surface Finish(Piston) | 3.2                              | 45554      | Visual                   | 2         | 2                                          | 3.1                              | Pass                  |                |
| 15                                    | Radius1 (Piston)       | 5.0                              | 45554      | CONTRACER                | 2         | 2                                          | 4.8                              | Pass                  |                |
| 16                                    | Visual Appearance      | No Step , Drawmark.Dent & Damage | 45554      | Visual                   | 2         | 2                                          | No Step , Drawmark.Dent & Damage | Pass                  |                |

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## 4. Product and Process Validation

### First Piece Inspection Report

|                                                                  |                       | <b>FIRST PIECE INSPECTION REPORT</b> |            |        |        |                                                                                                                                                                                       |                   |                   |                   |                   |                   | <b>Doc. No. :</b> F/FPIR/020<br><b>Rev. No. :</b> 03<br><b>Rev. Dt. :</b> 1/2/2019 |                   |                   |                   |                   |       |                     |              |       |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------|------------|--------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------|---------------------|--------------|-------|----------|
|                                                                                                                                                   |                       |                                      |            |        |        |                                                                                                                                                                                       |                   |                   |                   |                   |                   |                                                                                    |                   |                   |                   |                   |       |                     |              |       |          |
| <b>Production Unit :</b> RAVI<br><b>GRN No :</b> SIR/19-20/0412/04<br><b>Item Code :</b> 1030-12-SET<br><b>Lot Size :</b> 30<br><b>NC No :</b> NA |                       |                                      |            |        |        | <b>Inspection Date :</b> 09/Jun/2019<br><b>GRN Date :</b> 09/Jun/2019<br><b>Item Description :</b> DGP-MK-65-42533PL/12 SET<br><b>Sample Size :</b> 10<br><b>Material :</b> CUZN39PB3 |                   |                   |                   |                   |                   |                                                                                    |                   |                   |                   |                   |       |                     |              |       |          |
| Sr.No                                                                                                                                             | DRAWING SPECIFICATION |                                      |            |        |        | Instrument                                                                                                                                                                            | INSPECTION RESULT |                   |                   |                   |                   |                                                                                    |                   |                   |                   |                   | Mean  | INSPECTION ANALYSIS |              |       | COMMENTS |
|                                                                                                                                                   | Spec. Code            | Spec. Name                           | Std. value | (-)    | (+)    |                                                                                                                                                                                       | Sample Number     |                   |                   |                   |                   |                                                                                    |                   |                   |                   |                   |       | CpK                 | Alert/Reject |       |          |
|                                                                                                                                                   |                       |                                      |            |        |        |                                                                                                                                                                                       | 1                 | 2                 | 3                 | 4                 | 5                 | 6                                                                                  | 7                 | 8                 | 9                 | 10                |       |                     | High         | Low   |          |
| 1                                                                                                                                                 | TL                    | TOTAL LENGTH                         | 96.500     | 00.500 | 00.500 | DIGIMATIC VERNIER CALIPER                                                                                                                                                             | 96.470            | 96.400            | 96.440            | 96.460            | 96.470            | 96.480                                                                             | 96.490            | 96.490            | 96.510            | 96.520            | 96.47 | 04.795              |              |       |          |
| 2                                                                                                                                                 | RS1                   | ROD SIZE 1                           | 10.000     | 00.100 | 00.000 | DIGIMATIC VERNIER CALIPER                                                                                                                                                             | 09.980            | 09.990            | 09.980            | 09.990            | 09.980            | 09.990                                                                             | 09.980            | 09.990            | 09.970            | 09.960            | 9.98  | 00.671              | Alert        | Alert |          |
| 3                                                                                                                                                 | RS2                   | ROD SIZE 2                           | 07.000     | 00.100 | 00.000 | DIGIMATIC VERNIER CALIPER                                                                                                                                                             | 06.960            | 06.950            | 06.960            | 06.950            | 06.960            | 06.960                                                                             | 06.960            | 06.950            | 06.950            | 06.960            | 6.96  | 02.994              | Alert        | Alert |          |
| 4                                                                                                                                                 | Ø1                    | DIAMETER 1                           | 06.000     | 00.100 | 00.100 | DIGIMATIC VERNIER CALIPER, PIN GAUGE                                                                                                                                                  | 06.040            | 06.050            | 06.050            | 06.050            | 06.050            | 06.060                                                                             | 06.050            | 06.050            | 06.040            | 06.050            | 6.05  | 03.157              | Alert        |       |          |
| 5                                                                                                                                                 | CD1                   | CENTER DISTANCE 1                    | 07.500     | 00.100 | 00.100 | DIGIMATIC VERNIER CALIPER                                                                                                                                                             | 07.570            | 07.520            | 07.500            | 07.510            | 07.530            | 07.520                                                                             | 07.520            | 07.510            | 07.520            | 07.520            | 7.52  | 01.463              | Alert        | Alert |          |
| 6                                                                                                                                                 | CD2                   | CENTER DISTANCE 2                    | 04.000     | 00.100 | 00.100 | DIGIMATIC VERNIER CALIPER                                                                                                                                                             | 04.050            | 04.010            | 03.940            | 04.020            | 03.990            | 04.040                                                                             | 03.990            | 04.000            | 04.050            | 03.960            | 4     | 00.905              | Alert        | Alert |          |
| 7                                                                                                                                                 | TØ 1                  | THREAD DIAMETER 1                    | 04.200     | 00.050 | 00.050 | DIGIMATIC VERNIER CALIPER, PIN GAUGE                                                                                                                                                  | 04.240            | 04.250            | 04.250            | 04.250            | 04.250            | 04.250                                                                             | 04.250            | 04.240            | 04.250            | 04.240            | 4.25  | 00.218              | Alert        | Alert |          |
| 8                                                                                                                                                 | THR1                  | THREAD 1                             | M5-6H      | 0      | 0      | THREAD PLUG GAUGE                                                                                                                                                                     | OPERATION PENDING | OPERATION PENDING | OPERATION PENDING | OPERATION PENDING | OPERATION PENDING | OPERATION PENDING                                                                  | OPERATION PENDING | OPERATION PENDING | OPERATION PENDING | OPERATION PENDING |       | NaN                 |              |       |          |

# Improsys - Achievements

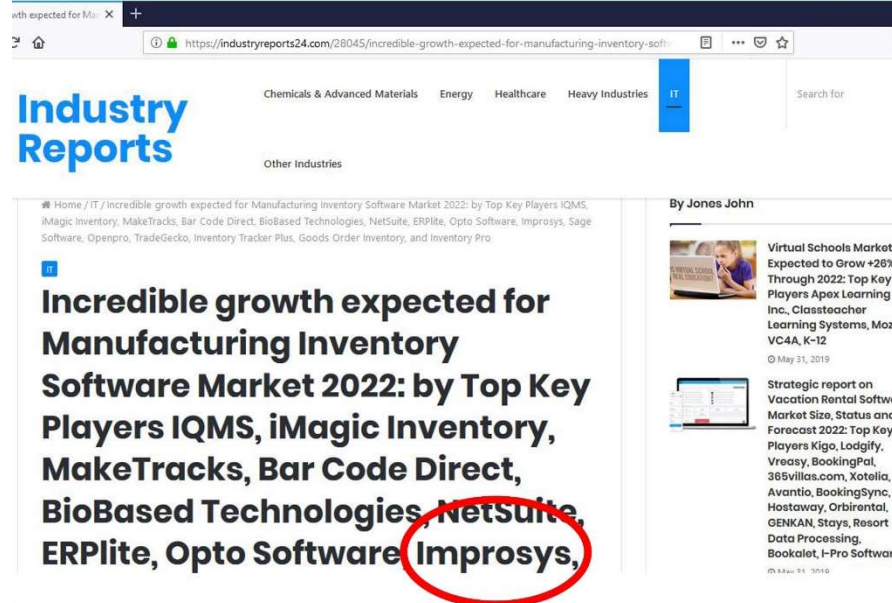


| Sr. No. | Market Research Report Name                                                                                                                                  | Publisher                        | Link                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | COVID-19 Impact on Manufacturing Inventory Software Market, Global Research Reports 2020-2021                                                                | Market Study Report              | <a href="https://www.marketstudyreport.com/reports/covid-19-impact-on-manufacturing-inventory-software-market-global-research-reports-2020-2021">https://www.marketstudyreport.com/reports/covid-19-impact-on-manufacturing-inventory-software-market-global-research-reports-2020-2021</a>                                                                                                                                                                         |
| 2       | Manufacturing Inventory Software Market 2020– Industry Analysis, Size, Share, Trends, Market Demand, Growth, Opportunities and Forecast 2026                 | QY Research                      | <a href="https://www.newsdistinct.com/manufacturing-inventory-software-market-2020-industry-analysis-size-share-trends-market-demand-growth-opportunities-and-forecast-2026-research-report-by-qyresearch/">https://www.newsdistinct.com/manufacturing-inventory-software-market-2020-industry-analysis-size-share-trends-market-demand-growth-opportunities-and-forecast-2026-research-report-by-qyresearch/</a>                                                   |
| 3       | Manufacturing Inventory Software: Market 2019 Benefits, Forthcoming Developments, Business Opportunities & Future Investments to 2024                        | Kentucky Reports                 | <a href="https://kentuckyreports.com/2020/04/20/manufacturing-inventory-software-market-2019-benefits-forthcoming-developments-business-opportunities-future-investments-to-2024-bar-code-direct-netsuite-maketracks-sage-software/">https://kentuckyreports.com/2020/04/20/manufacturing-inventory-software-market-2019-benefits-forthcoming-developments-business-opportunities-future-investments-to-2024-bar-code-direct-netsuite-maketracks-sage-software/</a> |
| 4       | Global Manufacturing Inventory Software Market Top Players 2019                                                                                              | Investor Opinion, UK             | <a href="https://investoropinion.co.uk/2020/01/30/global-manufacturing-inventory-software-market-top-players-2019-fishbowl-inventory-quickbooks-dba-intellitrack-infor-qms/">https://investoropinion.co.uk/2020/01/30/global-manufacturing-inventory-software-market-top-players-2019-fishbowl-inventory-quickbooks-dba-intellitrack-infor-qms/</a>                                                                                                                 |
| 5       | Global Manufacturing Inventory Software Market 2020 Industry Analysis by Size, Share, Growth, Key players, Trends, Recent Development and Forecast Till 2025 | Orbis Research, USA              | <a href="https://primefeed.in/news/161446/global-manufacturing-inventory-software-market-2020-industry-analysis-by-size-share-growth-key-players-trends-recent-development-and-forecast-till-2025/">https://primefeed.in/news/161446/global-manufacturing-inventory-software-market-2020-industry-analysis-by-size-share-growth-key-players-trends-recent-development-and-forecast-till-2025/</a>                                                                   |
| 6       | Manufacturing Inventory Software Market Size & Share 2020                                                                                                    | 3rd Market Reports and Analytics | <a href="https://3wnews.org/uncategorised/447897/manufacturing-inventory-software-market-size-share-2020-research-analysis-and-industry-forecast-to-2025/">https://3wnews.org/uncategorised/447897/manufacturing-inventory-software-market-size-share-2020-research-analysis-and-industry-forecast-to-2025/</a>                                                                                                                                                     |
| 7       | Manufacturing Inventory Software Market, Global Research Reports 2020-2021                                                                                   | Market Research Hub              | <a href="https://www.marketresearchhub.com/report/covid-19-impact-on-manufacturing-inventory-software-market-global-research-reports-2020-2021-report.html">https://www.marketresearchhub.com/report/covid-19-impact-on-manufacturing-inventory-software-market-global-research-reports-2020-2021-report.html</a>                                                                                                                                                   |

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## Improsys identified as one of the top players in Global Manufacturing Inventory Software Market by Industry Reports



The screenshot shows a web browser displaying an article on the 'Industry Reports' website. The URL in the address bar is <https://industryreports24.com/28045/incredible-growth-expected-for-manufacturing-inventory-software-market-2022-by-top-key-players-iqms-imagic-inventory-maketracks-bar-code-direct-biobased-technologies-netsuite-erplite-opto-software-improsys>. The article title is 'Incredible growth expected for Manufacturing Inventory Software Market 2022: by Top Key Players IQMS, iMagic Inventory, MakeTracks, Bar Code Direct, BioBased Technologies, Netsuite, ERPlite, Opto Software, Improsys.' The word 'Improsys' is circled in red. The article is by Jones John, dated May 31, 2019. A sidebar on the right lists other reports, including 'Virtual Schools Market Expected to Grow +26% Through 2022' and 'Strategic report on Vacation Rental Software Market Size, Status and Forecast 2022'.

The Report is available on the following link

<https://industryreports24.com/28045/incredible-growth-expected-for-manufacturing-inventory-software-market-2022-by-top-key-players-iqms-imagic-inventory-maketracks-bar-code-direct-biobased-technologies-netsuite-erplite-opto-software-improsys>

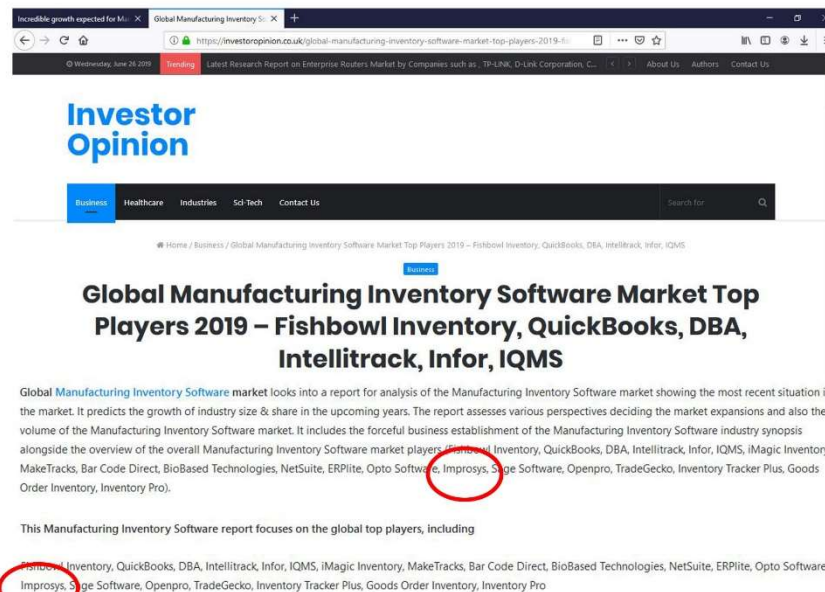


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# Improsys – Achievements



Improsys identified as one of the top players  
2019 in Global Manufacturing Inventory  
Software Market by Investor Opinion



The Report is available on following link

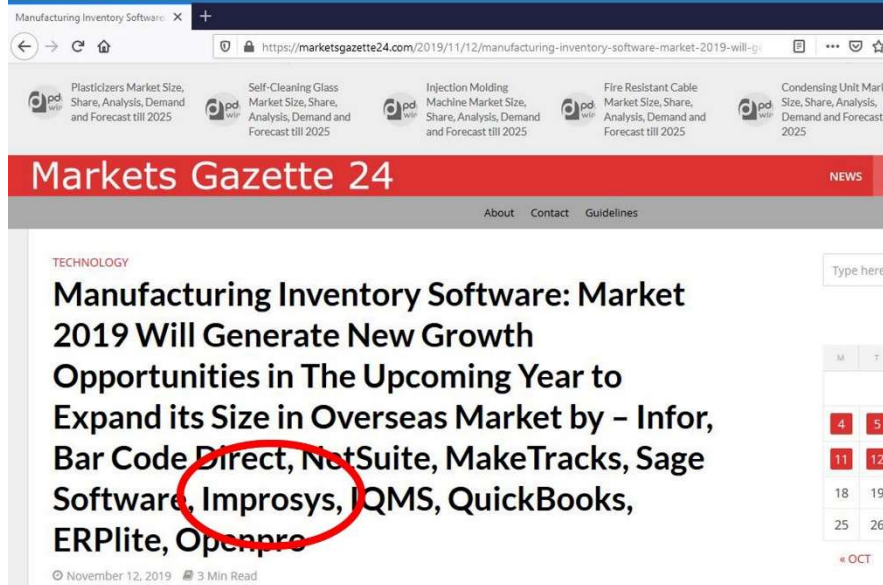
<https://investoropinion.co.uk/global-manufacturing-inventory-software-market-top-players-2019-fishbowl-inventory-quickbooks-dba-intellitrack-infor-iqms/>

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# Improsys – Achievements



Improsys identified as one of the top players in Manufacturing Inventory Software Market by Markets Gazette 24



The Report is available on the following link

<https://marketsgazette24.com/2019/11/12/global-contraceptive-market-latest-industry-growth-trends-and-future-scenario-to-2026/>

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**Al Bustan Al Khaleej, Kuwait**



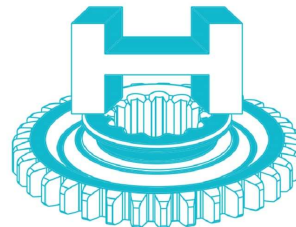
**Mohebi Martin Brower  
Logistics, Kuwait**



**Rock Drilling, Sharjah**



**KSB Pumps, Pune**



**ECHJAY INDUSTRIES**

**Echjay Industries, Rajkot**



**Klaus Union Engg India Pvt  
Ltd, Pune**



**Mubea Automotive  
Complements, Pirangut**



**Ganesh Industries,  
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Ltd, Pune**



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