

# UDYAM 4.0 Smart Manufacturing Forum

**Enabled Oriental Engineering Works to collaborate with Factri.AI and deploy Elogbook solution for Paperless operations**

## ABOUT ORIENTAL ENGINEERING WORKS

The company is an SME engineering and components manufacturer based in Haryana, making products such as Hydraulic Jacks, Cylinders, Pumps, Power Packs, Systems, Valves & Tools, Hydraulic, Systems including Cylinder & Power Packs which are manufactured for Construction, Mining, Hydro-electric Projects, Tunnelling, Underground Metro's etc. It is engaged in a big way in offering custom design equipment. The company possesses certifications such as ISO and ZED. The products are supplied domestically as well as exported to countries such as Europe, Middle East, African countries etc. Research & Development has been an integral part of the company on seeing the international competition. The company employs over 200 personnel with a special emphasis on skill building.

## PROBLEM STATEMENT

The company was using registers to record and keep track of operational data. Due to this, there were challenges related to data management and analysis. There was also a risk of data loss or capture of false data due to human errors. It was challenging to quickly analyze the historical data for evaluating the plant performance and respond to anomalies that could hamper the operations.

## THE SOLUTION CONCEPT

Factri.AI's team developed an Elogbook solution – a platform to digitally capture data from various operations on the shop floor at a centralized platform. The solution possessed various forms which can be opened by scanning the QR codes placed at different workstations of shopfloor, for punching the data. It also contained dropdown menus to reduce human errors while entering repetitive data logs. The solution showcased desired KPIs on the dashboard for regular monitoring. The data recorded provided the capability to analyze it and take future decisions.

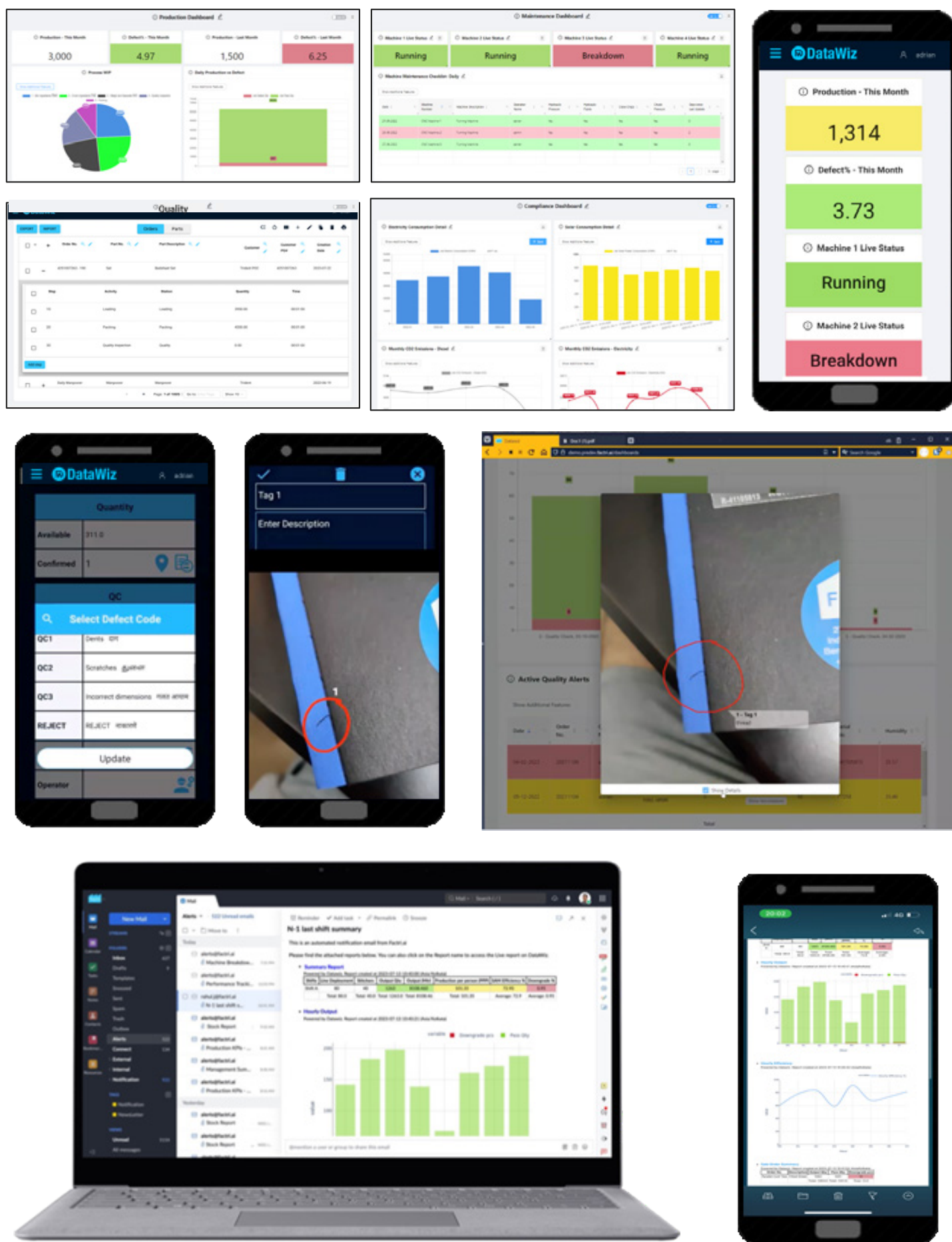
## ROLE OF NASSCOM COE

Nasscom CoE team visited the plant of Oriental Engineering Works and conducted the assessment. CoE provided mentoring support to create the digital roadmap. OEW prioritized Elogbook solution to kick start its digital journey. The CoE team helped to prepare the use case requirements and introduced multiple solution providers providing solutions in this area. The company finalized to work with Factri.AI – a CoE incubated startup to deploy the solution. During implementation, CoE consistently provided mentoring support for smooth execution.

## BUSINESS IMPACT

- A cultural shift among the workforce towards adopting and using digital in the plant
- Reduction in data entry delay as 10 tablets have been issued in various departments for data entry as opposed to writing on paper first and then in excel sheets.
- Real time data availability for analysis and visualization of desired KPIs for monitoring
- Improved machine availability due to real-time visibility of machine breakdowns or issues.
- Projected 20% saving in man hours at Maintenance department, which have been consumed in managing the data
- Ensured master process data was maintained (in ERP) in a structured and accurate manner for better data management and tracking

## SOLUTION SCREENSHOTS



NASSCOM CoE is a digital India initiative from Ministry of Electronics and IT and Government of Gujarat created to build an ecosystem for manufacturing digitisation in the country.

To know more about our initiatives write to us at

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