

Statement of Projects for KLE Collaboration

SI No	Brief description of current Process / Problem	How do you want the Future to look like	Project User
1	Manual scheduling of operator to the Machine	Automated scheduling of manpower based on the skill matrix and load of the machine	Ravi G
2	Fixed tool life considered and tools replaced after reaching life	Automated tool life recommendation based on wear and tear of the tool and its effect on product parameters	Mahendra H
3	Man makes decision of pass or fail based on microstructure of metallurgical inspection by placing parts in microscope	Automated recommenadation of pass or fail based on past images captured in the database	Dheeran C
4	Manual production scheduling, material planning from vendor and customer dispatch scheduling	Automated production planning, materials scheduling & Customer dispatch scheduling	Hareesh G
5	Tracking of the fleet is done through calling the vendor and understanding his location.	Real time tracking of the fleet with estimated time for destination	Shrikanth R
6	Charts are prepared in excel and copied into Power point and charts are not dynamic	Dynamic charts in Power BI for Opearations & Finance	Shakeel T
7	FIFO in stores is followed manually through coin system	Barcoding of boxes to ensure system drives FIFO adherence	Karoli G
8	Robot design, feasibility, scope of work & execution	Opportunity to learn and understand the entire process of robot design, procurement & implementation	Rahul S
9	Gas cutting of rejected parts done manually with hand held cutter connected to oxygen cylinder	Safe mechanism to cut the part	Karoli G
10	Explore alternate materials for inserts, fixtures, tools & broaches	Advanced material science team collaboration required to suggest composite materials usage	Nagesh K
11	Face detection system for allowing access to Operator to run a machine	Cost effective Face detective mechanism	Kiran D
12	Experienced operator gives manual offset to machine at the time of changeover of inserts / setup	Auto offset to be programmed using machine learning	Ravi G
13	External suppliers do integration / interfacing of machines	Develop skillset with knowledge of CNC machine programming and interfacing	Ravi G

14	Manual identification of tooling items based on serial numbers on Broach	RFID based tracking of tools and it life	Mahendra H
15	Canteen Feedback register is maintained for recording complaints & ratings	Feedback system	Sumit S

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Remarks
Need to be coordinated with "RFID based Tracking of Tools"
Need to discuss the execution
Training topic?

Need to be coordinated with "Automated Tool
Life Recommendation"

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